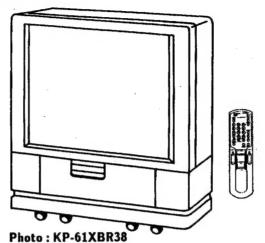
### KP-46XBR35/53XBR35/61XBR38

### SERVICE MANUAL



### US Model

KP-46XBR35

Chassis No. SCC-F19R-A

**KP-53XBR35** 

Chassis No. SCC-F19S-A

KP-61XBR38

Chassis No. SCC-F19V-A

### Canadian Model

KP-53XBR35

Chassis No. SCC-F23G-A

AP CHASSIS

MODELS OF THE	SAME SERIES
KP-46XBR35/53XBR35/61XBR38	KP-46V15/46V16/53V15
KP-46XBR25/53XBR25/61XBR28	KP-53V16/61V15
KP-41EXR95	KP-41EXR96

### **SPECIFICATIONS**

Structure

Screen and projector, rear projection

Projection system

3 picture tubes, 3 lenses, horizontal in-

Picture tube

7 inch high-brightness monochrome tubes (5.5 raster size), with optical

coupling and liquid cooling system High performance, larger-diameter

hybrid lens F 1.0

Screen material

Projection lenses

Acrylic plastic filter, Acrylic plastic lenticular,

Polycarbonate plastic fresnel

Projected picture size (in inches, measured

diagonally)

Screen brightness (cd/m<sup>2</sup>) 1,240 (KP-46XBR35)

46 (KP-46XBR35) 53 (KP-53XBR35) 61 (KP-61XBR38)

970 (KP-53XBR35) 700 (KP-61XBR38)

American TV standards Television system VHF: 2-13

Channel coverage

UHF: 14-69

Antenna

Input jacks

**CABLE TV: 1-125** 75- ohm external antenna terminal for VHF/UHF VIDEO IN 1, 2 and 3

S VIDEO IN (4-pin mini DIN) Y: 1 Vp-p, 75-ohms unbalanced,

sync negative

C: 0.286 Vp-p (Burst signal)

75-ohms

Video (phono jacks): 1 Vp-p, 75-ohms

unbalanced, sync negative

Audio (phono jacks):

500 mVrms (100% modulation)

Impedance: 47 kilo-ohms

- Continued on next page -





Output jacks

MONITOR OUT

S VIDEO MONITOR OUT (4-pin mini DIN)

Y:1 Vp-p, 75-ohms

unbalanced, sync negative

Video (phono jacks):1Vp-p, 75-ohms unbalanced, sync negative Audio (phono jacks):500mVrms

(100% modulation) Impedance:10 kilo-ohms

AUDIO (VAR) OUT

(phono jacks)

More than 900mVrms (100% modulation) at the maximum volume setting (variable)

Impedance:5kilo-ohms

AUDIO OUT

(phono jacks)

900mVrms (100% modulation)

Impedance:5kilo-ohms

Speaker KP-46XBR35/53XBR35

Woofer 120 mm (43/4 inches) diameter Tweeter 25 mm (1 inches) diameter

KP-61XBR38

Woofer 160 mm (61/2inches) diameter Tweeter 50 mm (2inches) diameter 20W×2 (FRONT) 10W×2 (REAR)

Speaker output CENTER SPEAKER

ER SPEAKER 16Ω NORM. 30W MAX 50W

input

Power requirements
Power consumption

120 V AC, 60 Hz

350W (max.) 280W (avg.)

7W (standby mode)

Dimensions (w/h/d)  $1,104\times1,289\times512$  mm ( $43_{1/2}\times50_{3/4}\times20_{1/4}$  inches)

(KP-46XBR35)

1,238×1,339×638 mm (48<sub>3/4</sub>×52<sub>3/4</sub>×25<sub>1/8</sub> inches)

(KP-53XBR35) 1,521×1,532×780 mm (60×60<sub>3</sub>/8×30<sub>3</sub>/4 inches)

(KP-61XBR38)

Weight 90.7 kg (200 lb) (KP-46XBR35)

100.5 kg (221 lb 9 oz) (KP-53XBR35) 180.2 kg (397 lb 5 oz) (KP-61XBR38)

Supplied accessories Remote Commander RM-Y114A (1)

with 2 size AA (R6) EVEREADY batteries

Optional accessories U/V mixer EAC-66

Connecting cable
RK-74A
VMC-810S/820S
YC-15V/30V
VCR Tray SU-PJT1

(except for KP-61XBR38)

Design and specifications are subject to change without notice.

### (CAUTION)

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

### WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.

THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

### **SAFETY-RELATED COMPONENT WARNING!!**

COMPONENTS IDENTIFIED BY SHADING AND MARK A ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED INTHIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

### (ATTENTION)

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURTCIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

### ATTENTION!!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE.

LE CHÁSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ Á L'ALIMENTATION SECTEUR.

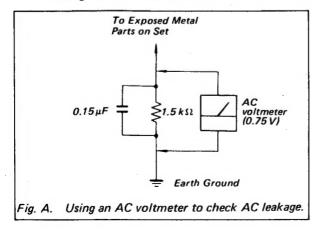
### ATTENTION AUX COMPOSANTS RELATIFS ÁLA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET PAR UNE MAPQUE À SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIECES CONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÉCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIES DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTÉ.

### SAFETY CHECK-OUT (US Model Only)

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

- Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
- Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
- Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
- Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
- Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement
- Check the line cord for cracks and abrasion.
   Recommend the replacement of any such line cord to the customer.
- 7. Check the condition of the monopole antenna (if any).
  - Make sure the end is not broken off, and has the plastic cap on it. Point out the danger of impalement on a broken antenna to the customer, and recommend the antenna's replacement.
- Check the B+ and HV to see they are at the values specified. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
- Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.



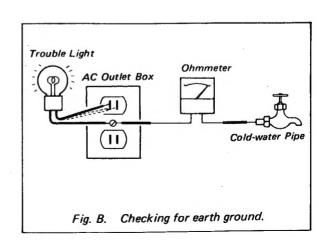
### LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

- A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
- A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
- 3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

### HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60-100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)



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the Operating Instruction Manual. The page numbers of the The operating instructions mentioned here are partial abstracts from Operating Instruction Manual remein as in the manual.

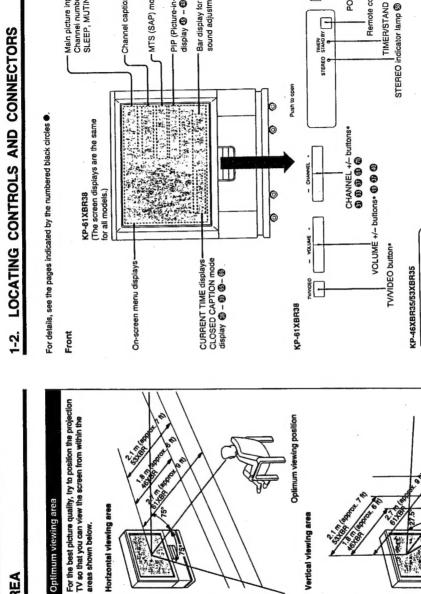
### SECTION 1 GENERAL

Main picture input mode/video label Channel number display SLEEP, MUTING displays ©

### UNPACKING AND VIEWING AREA Ξ

Carefully follow the instructions on the outside of the packing carton to unpack the projection TV.

- The supplied accessories are packed in the bottom of the carton.
- Be sure not to throw them away. Keep the original carton and packing materials to safely transport the projection TV in the future.
- Check to make sure that the following is included:
  - Universal Remote Commander RM-Y114A (1) with 2 size AA (R8) EVEREADY batteries
- If the Remote Commander is missing, contact your dealer.
- Piace the projection TV in a cool, dry place where the ventilation openings at the sides are not blocked.
- Plug the projection TV power cord into an AC 120 volt power outlet.
- For further precautions, see p. 2.



Bar display for volume, picture or sound adjustment **创 ⑤** 一**句 ⑤** ⑥ PIP (Picture-in-Picture) input mode display 🕲 - 🕲

MTS (SAP) mode display 🕲 🚱 -Channel caption display @- @

TIMER/STAND BY indicator lamp

TIMER/STAND BY indicator lamp @ @ @ STEREO indicator lamp @

Remote control detector

POWER switch\*

VOLUME+/-buttons + ® ⊕ ®

viewing position

TV/VIDEO button\*

1

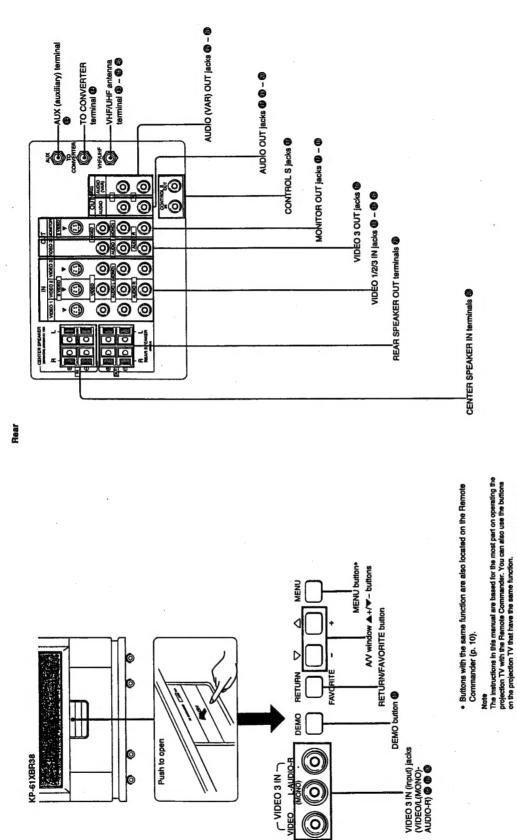
-

CHANNEL +/- buttons \*

Remote control detector POWER switch\*

STAND BY

Buttons with the same function are also located on the Remote Commander (p. 10).

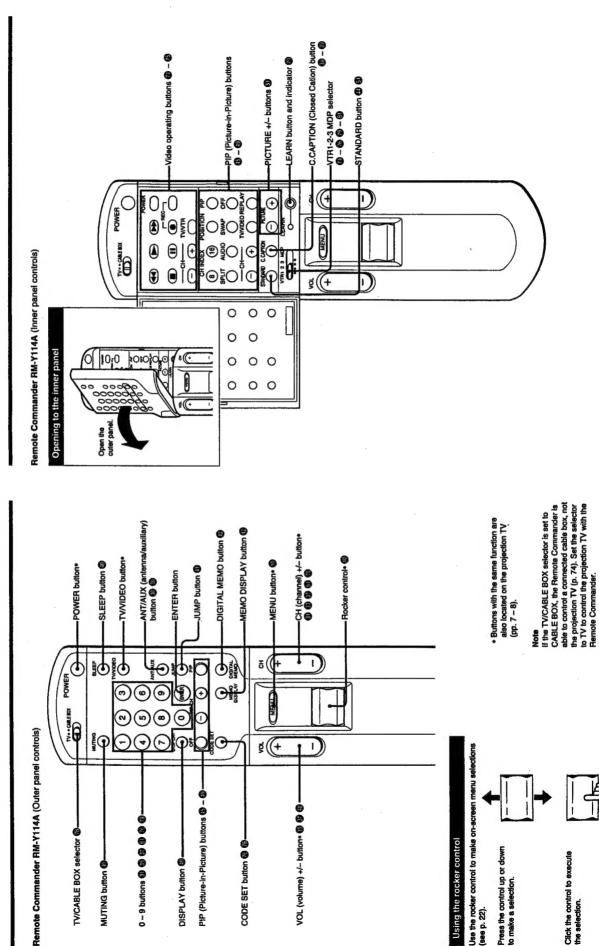


A/V window A+/T- buttons RETURN button
Rocker control
(press up or down) (click)

Projection TV Remote Comma

The following are controls that are of different types, but have exactly the same function.

Front Inner panel

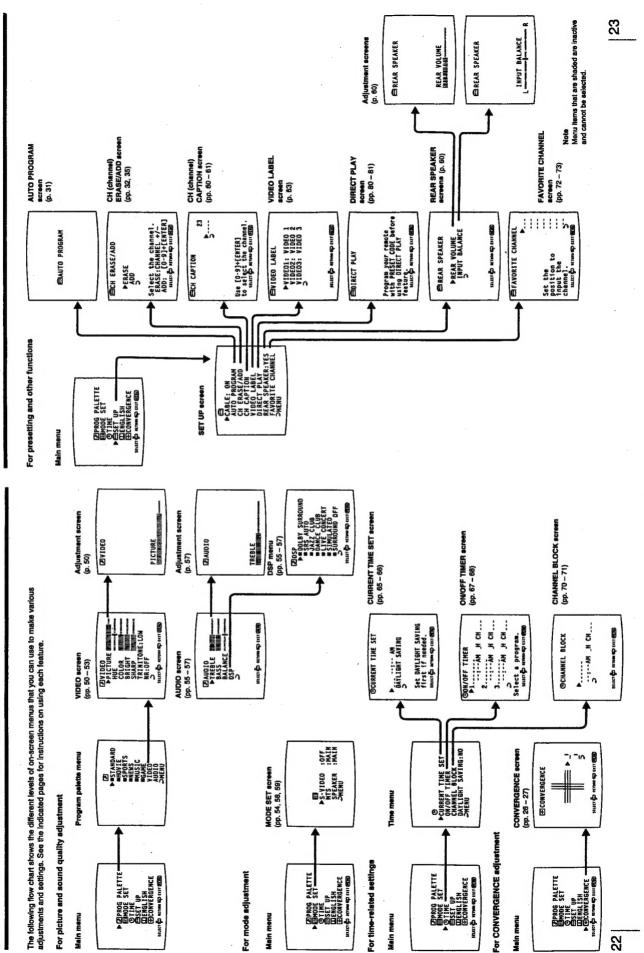


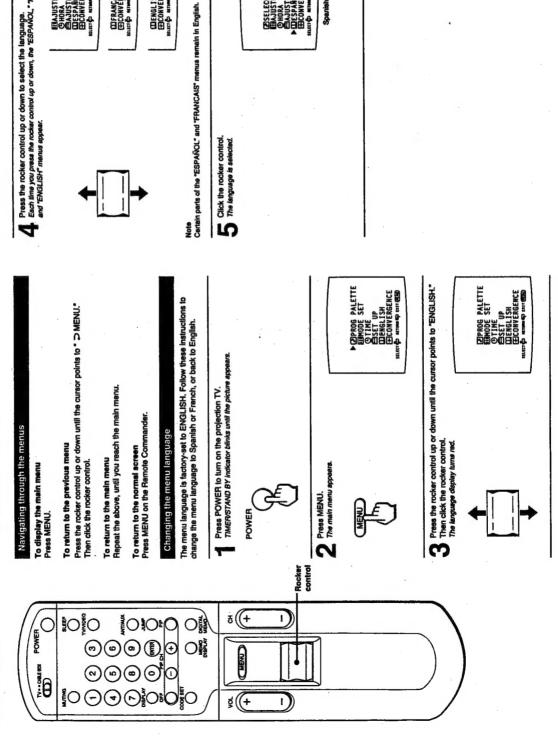
**-7-**

Click the control to execute the selection.

<del>1</del>0

# 1-3. USING THE ON-SCREEN MENUS





ETAJUSTE DE MODO OHORA OBAJUSTES UDESPROI EDCONVERGENCIA RICETO ATRAMOS ESTERSO Press the rocker control up or down to select the language.
Each time you press the rocker control up or down, the "ESPANOL," "FRANÇAIS" and "ENGLISH" menus eppear. EDCONVERGENCE 

To return to the normal screen. Press MENU on the Remote Commander.

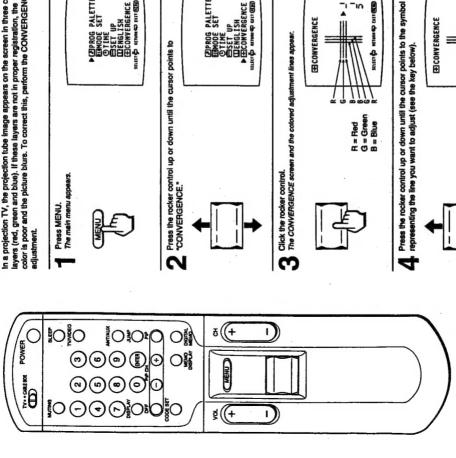
Notes concerning menus

• During PIP (Picture-in-Picture) mode, the on-screen menus may overlap the window picture.

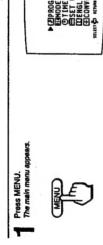
The menus disappear automatically, if you do not press a button within 90 seconds.

COSELECCION A/V
CHORA DE MODO

# 1-4. ADJUSTING COLOR REGISTRATION (CONVERGENCE)



In a projection TV, the projection tube image appears on the screen in three color layers (red, green and blue). If these layers are not in proper registration, the color is poor and the picture blurs. To correct this, perform the CONVERGENCE



PEPROG PALETTE
TEMODE SET
OTHE
SET UP
TERGLISH
ECONVERGENCE

SILETO HITTER CHICELE

**ECONVERGENCE** Click the rocker control.

The CONVERGENCE screen and the colored adjustment lines appear.

R = Red G = Green B = Blue

Butte Chemin Chains

ECONVERGENCE.

புற்பா த்தைய தூரை **ECONVERGENCE** Click the rocker control.

The adjustment line is selected.

To return to the normal screen. Press MENU on the Remote Commander.

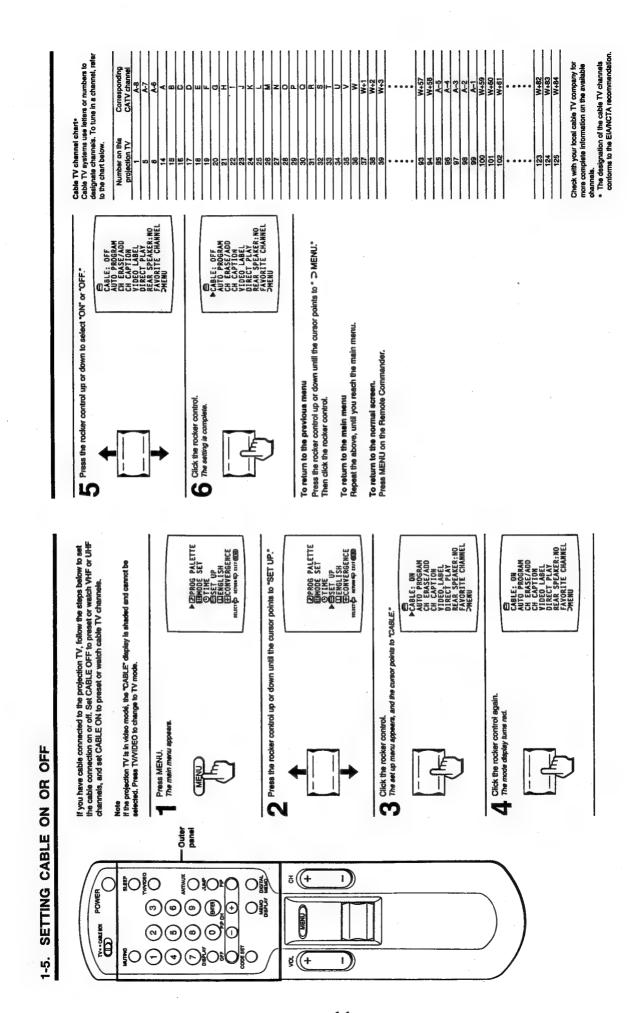
To return to the previous menu Press the rocker control up or down until the cursor points to □ ⊃ MENU.\*
Then click the rocker control.

To return to the main menu Repeat the above, until you reach the main menu.

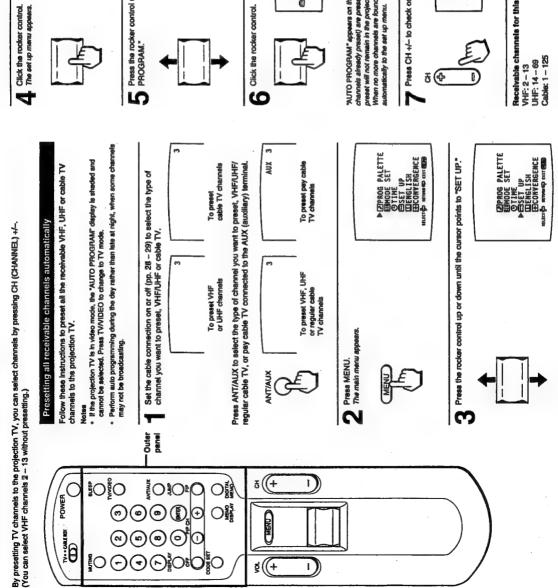
Press the rocker control up or down until the line converges with the center green line. Then click the rocker control. E CONVERGENCE Press the rocker control down. Press the rocker control up. To move down To move left To move up To move right

ECONVERGENCE Papeat steps 4 – 6 to adjust the other lines, until all the lines have overlapped to form a white cross.

Chanta dina



# 1-6. PRESETTING TV CHANNELS



PCABLE: ON MAIN PROGRAM CAN EXPENDE CH EXACSTAND CH CAPTION WIDGO LABE DIRECT PLAY REAR SPEAKE: NO REAR SPEAKE: NO PRENUEL CHANNEL CHA Press the rocker control up or down until the cursor points to "AUTO PROGRAM."

To return to the normal screen. Press MENU on the Remote Commander.

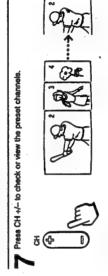
Repeat the above, until you reach the

To return to the main menu

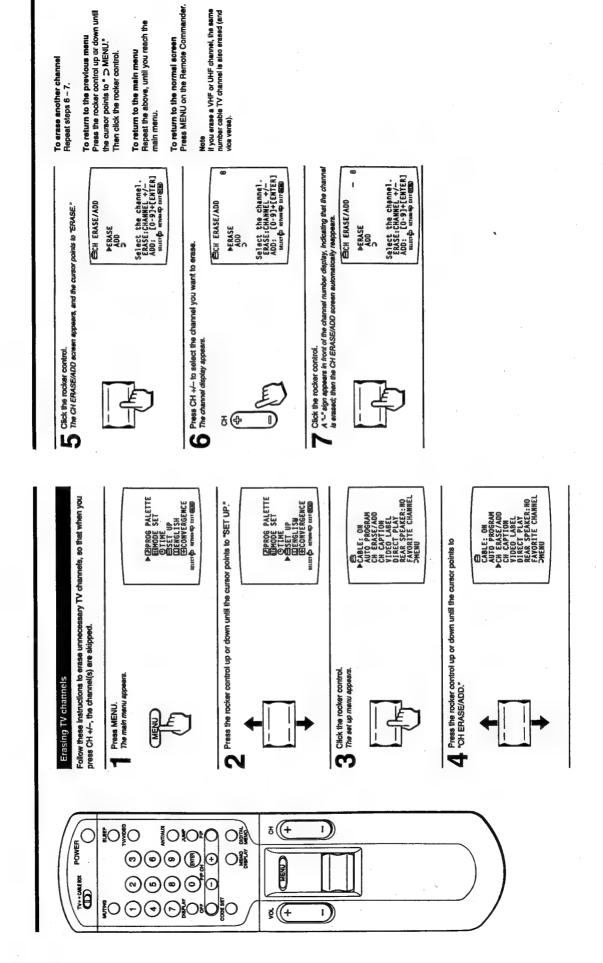
To return to the previous menu Press the rocker control up or down until the cursor points to " ⊃ MENU." Then click the rocker control.

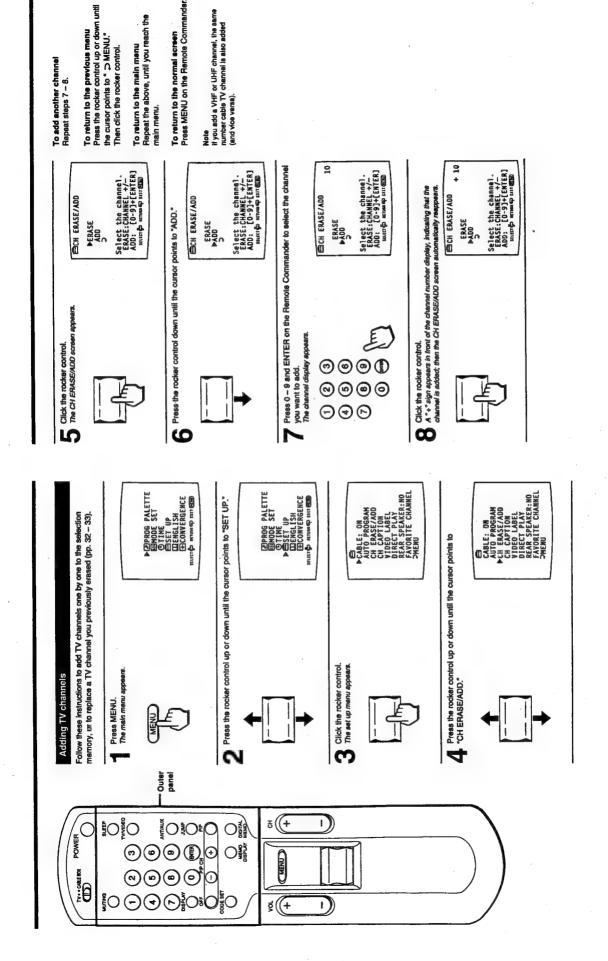
To select TV channels without presetting Press the 0 – 9 buttons and ENTER.

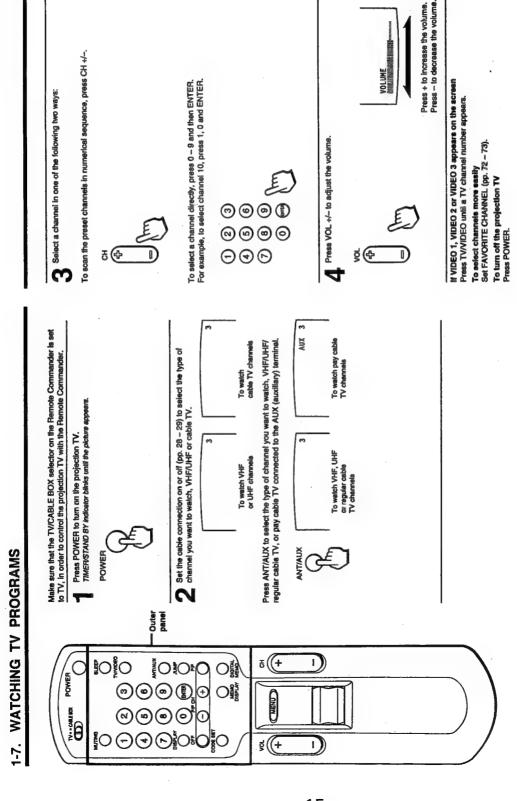
"AUTO PROGRAM" appears on the screen and receivable channels (other than the channels already preself are preself inturnated sequence. The channels previously preself will not femals in the projection TV's memory. 
When no more channels are found, auto programming stops and the screen returns.

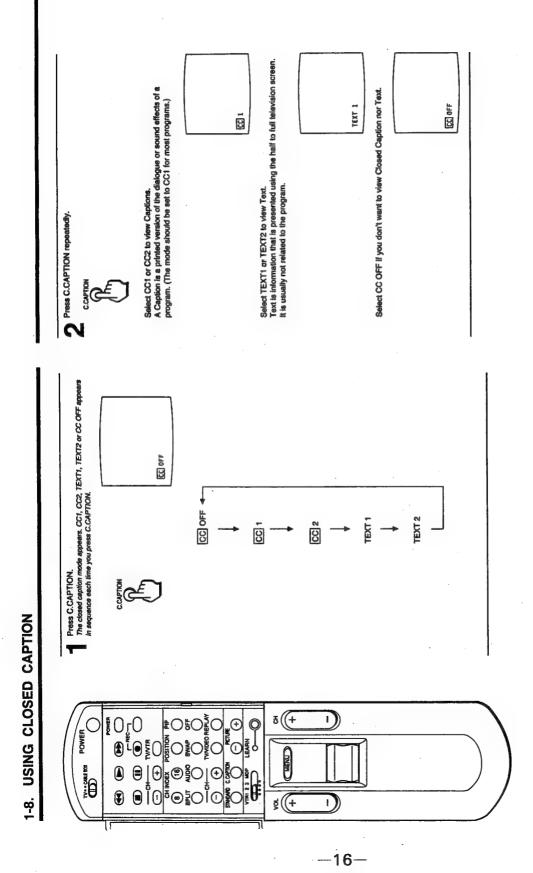


Receivable channels for this projection TV









# 1-9. USING CONVENIENT FEATURES

MUTRING	N. C.	SLEEP 30 SLEEP 90 SLEEP 90 SLEEP 97	
	Keeping the displays on-screen—DISPLAY Press DISPLAY.  All the existing displays appear: channel number, channel caption All the existing displays appear: channel number, channel caption this existing displays appears after about three seconds).  To turn off the displays Press DISPLAY again.	Setting the sleep timer — SLEEP  The steep timer turns off the projection TV automatically after the amount of time you select.  Press SLEEP  Each time you press SLEEP, the time increments "30," "50," "30"  SLEEP 30  SLEEP  A red "SLEEP" (signier appears about one minute before the projection TV goes off.  To cancel the setting.  To cancel the setting.  The select off display appears for about three seconds.  OR  Turn the projection TV off.  Turn the projection TV off.	
WENC		e mad	
DEMO RETURN $\nabla$ $\triangle$ FAVORITE - +	TVCARRIEGE POWER	4 Page 10 Page	

# Switching quickly between two channels — JUMP

Use this function to keep track of two programs

illemately.

To recall the channel you were watching previously Press JUMP.

To switch back to the first channel Press JUMP again. Note The JUMP function also changes the mode to ANT (anterna) or AUX (auxiliary), depending on the mode of the channel you were watching previously.

## Previewing the features — DEMO

Press DEMO (front inner panel). Functions and menus are displayed one by one.

To restart DEMO from the beginning Press DEMO again.

To stop DEMO Press any button.

# 1-10. SELECTING A PICTURE AND SOUND MODE

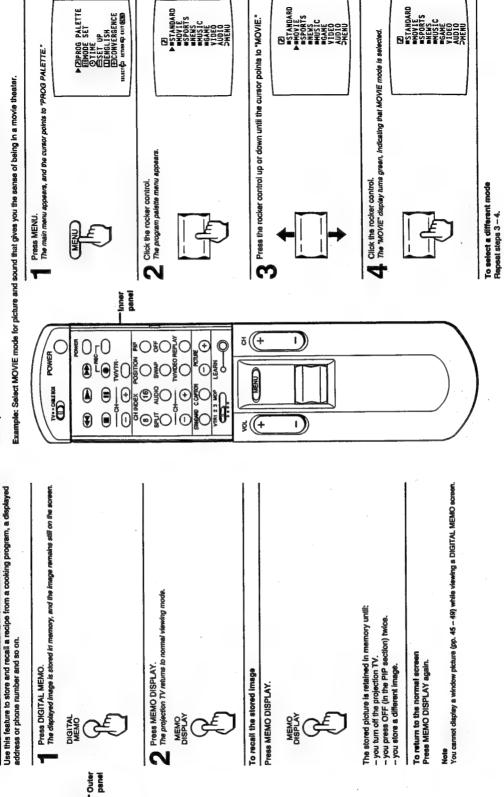
This projection TV features six modes (STANDARD, MOVIE, SPORTS, NEWS, MUSIC, GAME) that offer different picture and sound qualities. Choose the one that best suits the type of program that you want to watch.

Storing an image in memory - DIGITAL MEMO

POWER

D. Company

Example: Select MOVIE mode for picture and sound that gives you the sense of being in a movie theater.



₹(+

MENU

ğ(+

# Selecting standard mode (without using the menus)

Follow these instructions to select standard mode without using the on-screen

Press STANDARD.

Repeat the above, until you reach the Fo return to the main menu

You can watch both the main picture and one or more window pictures simultaneously, using the Picture-in-Picture (PIP) function.

1-11. WATCHING TWO OR MORE PICTURES AT ONCE (PIP)

-- Window picture

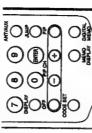
When watching the main picture and a window picture, Picture-in-Picture special features /ou can:

- Choose the sound from the main or window picture AUDIO).
- Change the position of the window picture (POSITION).
  - Swap the main and window pictures (SWAP).
- Split the screen, with the main picture on one side and the window picture on the other side (SPLIT). Replay the main picture as a window picture (REPLAY).
  - Display 8 or 16 TV channels simultaneously (CH INDEX 8/16).

Remote Commander (Outer panel)

To turn PIP mode on or off, or to change TV channels, you can use the PIP buttons on the Remole Commander's outs panel. For other PIP functions, use the inner panel controls, which also include the PIP, OFF and CH +L- buttons.

Displaying a window picture



Press PtP to display a window picture



nput source mode or TV channe



A window picture appears in the last mode you watched. Each time you press PIP, a 1/4 or I/B size window picture appears

To turn PIP function off

The window picture disappears. Press OFF.

To change TV channels in the window picture Press TV/VIDEO to select TV mode; then press CH +/- in the PIP control area.

### To return to the previous menu Press the rocker control up or down until the cursor points to " > MENU." Then click the rocker control

main menu.

To return to the normal screen. Press MENU on the Remote Commander.

You receive standard picture and sound quality. Any video or audio adjustments you made ("Adjusting the Picture" pp. 50-54; "Adjusting the Sound" pp. 55-60) are cancelled and the original factory settings are restored. When you select STANDARD mode

## When you select MOVIE mode

You receive a finely detailed picture, and a theatrical audio effect. To further adjust picture and sound qualities, follow the instructions on pp. 50 – 54 and pp. 55 – 60, or select different sound modes from the DSP (Digital Sound Processor) menu (pp. 55 – 56).

### When you select SPORTS mode

You receive a vivid, bright picture, and sound with a sports stadium effect. To further solusit picture and sound qualifies, follow the instructions on pp. 50 – 54 and pp. 55 – 80, or select different sound modes from the DSP (Digital Sound Processor) menu (pp. 55 – 56).

### When you select NEWS mode

Picture noise is reduced, and you receive clear voice reproduction.

To further adjust picture and sound qualities, follow the instructions on pp. 50 – 54 and pp. 55 – 60, or select different sound modes from the DSP (Digital Sound Processor) menu (pp. 55 – 56).

### When you select MUSIC mode

You receive a warmer picture, and live concert effect sound. To further adjust picture and sound qualities, follow the instructions on pp. 50 – 54 and pp. 55 – 60, or select different sound modes from the DSP (Digital Sound Processor) menu (pp. 55 – 56).

### When you select GAME mode

The picture is easier on your eyes, and sound has a surround effect. To further edjust picture and sound qualities, follow the instructions on pp. 50 - 54 and pp. 55 - 60, or select different sound modes from the DSP (Digital Sound Processor) menu (pp. 55 – 56).

Leaving a fixed pattern on the screen for long periods of time, when operating a video game or personal computer, may damage the picture tube. To avoid this, keep the picture contrast and the brightness levels low (PICTURE and BRIGHT adjustment, pp. 50 - 51).

# You can also use the CH 4/- buttons on the Remote

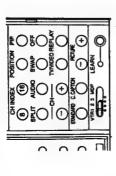
- The video label and channel caption will not appear with the
- window picture even if you have set them.

it you display a DIGITAL MEMO screen (p. 42), the window picture disappears.

# Changing the window picture input mode

Follow these instructions to select the input mode (TV/ VIDEO 1, VIDEO 2, VIDEO 3) for the window picture.

Remote Commender (Inner penel)



Press PIP to display a window picture.

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Press TV/VIDEO to select the Input mode.

Each time you press TV/VIDEO, "TV," "VIDEO 2" and "VIDEO 3" appear in sequence.



¥ TVVIDEO

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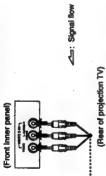
To receive the window picture sound Press AUDIO. window picture sound is being received

# Displaying CATV Input as a window picture

Changing the position of the window picture Follow these instructions to change the position of the

window picture on the screen.

To use Picture-in-Picture with pay cable TV input, make the connections to your cable converter box as shown below.



WANDEO REPLAY

OF THE CONTROL OF THE 

VIDEO 1 Press PIP to display a window picture.

Press POSITION.

Each time you press POSITION, the window picture moves as illustrated.

Signal

VMC-810S/820S<sup>-</sup> (not supplied)



VIDEO 1

 $\oplus$ 

Follow these instructions to swap the input signals of the main and window pictures. Swapping the main and window pictures

Remote Commander (Inner panel)

Press PIP to display a window picture.

Press SWAP.
Each time you press SWAP, the images from the main and window pictures switch places.

indicating that the The J display appears for a few seconds,

To restore the main picture sound Press AUDIO again. Note

The window picture sound is also output from the AUDIO (VAR) OUT jacks. The AUDIO OUT and MONITOR OUT jacks output the main picture sound only.

Change pay cable TV channels with the decoder box.

S Put your VCR on an inactive channel (channel 3 or 4).

Follow steps 1 – 2 in "Changing the window picture input mode" on this page to select the video input mode for your connected VCR.

7

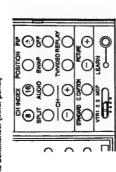
After making the above connections, turn the čable connection on by following the steps on pp. 28 – 29; then continue with the steps below.

To control your cable converter box with the supplied Remote Commander See p. 78.

# Displaying 8 TV channels at once - CH INDEX 8

Follow these instructions to display the main picture and 7 window pictures at once.

### femote Commander (Inner panel)



Displaying 16 TV channels at once - CH INDEX 16 -ollow these instructions to display 16 window pictures at

# Press PIP to display a window picture.

Press PIP to display a window picture.











CH INDEX

Each time you press CH INDEX 16, the next 16 sequential appear (the main picture does not change).

To return to the normal screen Press OFF.

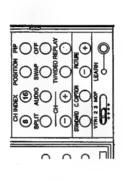
# Replaying the main picture as a window picture

Follow these instructions to split the screen, with the wind picture on the left, and the main picture on the right.

Splitting the screen

Remote Commender (Inner panel)

### Remote Commander (Inner panel)



Press SPLIT.

Press REPLAY.





### To return to the normal screen Press OFF.

To return to the normal screen Press OFF.

Press CH INDEX 16 to display 16 window pictures.

16 TV channels appear in numerical sequence, as window pictures.

Press CH INDEX 8 to display seven window pictures. Seven TV channels appear in numerical sequence, as window pictures.

Note When using SPLIT, vertical lines may appear elongated.

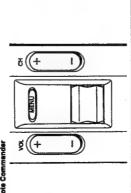
Each time you press CH INDEX 8, the next seven sequer channels appear (the main picture does not change).

To return to the normal acreen Press OFF.

## Setting the TRINITONE mode

Color picture tubes are usually manufactured with a fixed color temperature (first) that determines the "warmth" (red tint) or "coolness" (blue tint) of the picture. Use the Sony Trinitone feature to adjust the picture color to your preference.

Remote Commander



Press MENU. The main menu appears, and the curaor points to "PROG PALETTE."



Click the rocker control.

The program palette menu appears.



Then click the rocker control.

Press the rocker control up or down until the cursor points to "VIDEO." 3

Click the rocker control.

The VIDEO screen appears



Press the rocker control up or down until the cursor points to "TRINITONE."

Click the rocker control. The mode display turns red. 9 Press the rocker control up or down to select "HIGH" or "LOW."

Select "HIGH" to make the picture cool (bluish). Select "LOW" to make the picture warm (reddish).

Click the rocker control.
The setting is complete. 00 To return to the previous menu Press the rocker control up or down until the cursor points to " > MENU."

Repeat the above, until you reach the main menu. To return to the main menu

Press the rocker control up or down until the cursor points to "VIDEO."

To return to the normal screen Press MENU on the Remote Commander

# Setting NR (picture noise reduction) ON or OFF

Press the rocker control up or down until the cursor points to "NR."

Follow these instructions to reduce picture noise.

Remote Commande

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PICTURE REMEMBER PICTURE REMEMBER PICTURE REMEMBER PICTURE SHARP GENERAL SHARP GENERAL PRINTIONE: LOW

Die tra Grante Grante

Glick the rocker control.

The mode display turns red.

Press the rocker control up ar down to select "ON" or "OFF." Select "ON" to reduce picture noise. Select "OFF" to restore the normal picture.

Press MENU.
The main menu appears, and the cursor points to 'PROG PALETTE."

Click the rocker control.

The setting is complete.

P. PROG PALETTE MINOR SET OF THE CONTINUE SET

Press the rocker control up or down until the cursor points Fo return to the previous menu Then click the rocker control. to " > MENU."

Click the rocker control.
The program palette menu appears.

Rapeat the above, until you reach the main menu. To return to the main menu

GENODARD
MOVIE
MOV

To return to the normal screen Press MENU on the Remote Commander.

PATCHE STREETHER PATCHES TO THE STREETHER STRE Click the rocker control.
The VIDEO screen appears

### ADJUSTING THE SOUND 1-13.

### Selecting a sound mode

Click the rocker control.

The AUDIO screen appears.

sound mode that best suits the type of sound you are

when viewing a musical performance.

Remote Commander

Press the rocker control up or down to select "ON" or OFF."

₹(+ 1 MENU ğ (+ J)

Press the rocker control up or down until the cursor points to "DSP." Click the rocker control

Press the rocker control up or down until the cursor points to "  $\supset$  MENU."

To return to the previous menu

Glick the rocker control.

The setting is complete.

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T)

Repeat the above, until you reach the main menu.

To return to the main menu

Press MENU. The main menu appears.

Then click the rocker control.

To return to the normal screen Press MENU on the Remote Commander.

PEDDSP PEDDSP SURROUND BAAZ CLUB PANCE CLUB BAYE CONCERT BEINLATED

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P. JPROG PALETTE
BINDOE SET
COTTINE
SET UP
CONTENT OF
C

Press the rocker control up or down until the cursor points to "JAZZ CLUB." Click the rocker control.

JAZZ CLUB mode is selected

CADSPARATION OF FINANCIAL OF FI nerige servan ep sin (CE)

To select a different mode Repeat steps 8 – 9. (See the next page for the different modes you can choose.)

Follow the instructions on pp. 57 - 58. To further adjust the sound

To return to the previous menu Press AV WINDOW +/- until the cursor points to

Then press RETURN. ⊃ MENU."

Repeat the above, until you reach the main menu. To return to the main menu

To return to the normal screen. Press MENU on the Remote Commander.

Click the rocker control. The mode display turns red.

4

Follow these instructions to set S-VIDEO on or off, depending on the kind of video equipment you have connected to the projection TV. For instructions on connecting video equipment, see pp. 15 – 18.

Remote Commender (Outer panel)

Setting S-VIDEO ON or OFF

Use the DSP (Digital Sound Processor) menu to select the listening to.

Example: Select JAZZ CLUB mode to enhance the effect

PTREBLE (MINIMATE)
BASS (MINIMATE)
BALANCE (MANAGE)
DSP

RLIEGT METURE CHIT (MILE)

Press MENU.
The main menu appears.

Press the rocker control up or down until the cursor points to "PROG PALETTE."

Click the rocker control.

The program palette menu appears

PESTANDARD
MENOTE

MAIN :

PS-VIDEO SPEAKER SPEAKER

Press the rocker control up or down until the cursor points to "AUDIO."

54

P PROG PALETTE GENODE SET OF INFECTION OF SET OF SET OF INFECTION OF SET OF SE

Press the rocker control up or down until the cursor points to "MODE SET."

N

Click the rocker control.

The mode set menu appears, with the cursor pointing to "S-VIDEO."

When you select DOLBY SURROUND\* mode You receive wraparound sound with three-dimensional audio depth and presence when you connect main speakers and optional rear speakers.

You receive powerfully realistic sound that recaptures audio clues" originally present but masked in the recording You must set REAR SPEAKER to "YES" (p. 60), or the display is. blacked out and cannot be selected.

When using rear speakers, control the volume with the REAR VOLUME adjustment screen. When you select SRS AUTO mode

When you select JAZZ CLUB mode You receive sound that gives a sense of space, with a touch process, so that the action seems to happen all around you.

of echo added.

When you select DANCE CLUB mode
You receive the sound effect of the hard floor and wall
environment of a dance club.

When you select LIVE CONCERT mode You receive sound that simulates the effect of being present at a live concert.

You receive monaural sound with a surround-like effect. When you select SIMULATED mode

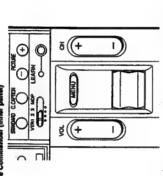
You receive sound without a surround effect. When you select SURROUND OFF mode

To further adjust sound qualities Follow the instructions on pp. 57 – 58.

Licensing Corporation. Additionally licensed under one or more of the following patents: U.S. numbers: 3,682,886, 3,748,792 and 3,959,590. "Dolby" and the double-D symbol DI are trademarks of Dolby Laboratories Manufactured under license from Dolby Laboratories Licensing Corporation.

### Adjusting sound quality

Follow these instructions to adjust the TREBLE, BASS and BALANCE.



Press MENU.
The main menu appears, and the cursor points to PROG PALETTE.



Click the rocker control.

The program palette menu appear



Press the rocker control up on down until the cursor points to "AUDIO."

Click the rocker control.

The AUDIO screen appear

Press the rocker control up or down until the cursor points to the item you want to adjust.

Click the rocker control.

The adjustment screen appe

2AUDIO

Press the rocker control up or down to make the adjustment.

Sound	Press the rocker control down	Press the rocker control up
TREBLE	To decrease the treble response	To increase the trebie response
BASS	To decrease the base response	To increase the base response
BALANCE	To emphasize the left speaker's volume	To emphasize the right speaker's volume

Click the rocker control.

The adjustment is complete, and the AUDIO screen automatically reappears.

TREELE SIGNE Incommon P. BASS SIGNE Barre General Crause

To adjust other Items Repeat steps 5 -- 9.

Select "STANDARD" on the program palette menu, and click the rocker control; or, press STANDARD on the To restore the factory settings for all the Items Remote Commander. All the items return to their original factory settings To return to the previous menu Press the rocker control up or down until the cursor points to ⇒ MENU." Then click the rocker control.

Repeat the above, until you reach the main menu. To return to the main menu

To return to the normal screen Press MENU on the Remote Commander.

SELECT CONTROL CITTERS

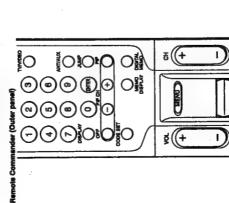
# Selecting an MTS (Multichannel TV Sound) mode

Click the rocker control.

Select MAIN mode to listen to stereo sound. The STEREO lamp on the projection TV lights up whenever a stereo broadcast is received. Follow these instructions to select an MTS mode.

Select MONO mode to eliminate excessive noise during stereo broadcasts, caused by a weak incoming signal. Select SAP mode to listen to Second Audio Programs.

if the projection TV is in video mode, the "MTS" display is shaded and cannot be esfected by the STAVIDEC on the projection TV or on the Remote Commander to change to TV mode.



Press the rocker control up or down until the cursor points to To return to the previous menu

Repeat the above, until you reach the main menu. To return to the main menu

" > MENU." Then click the rocker control.

To return to the normal screen Press MENU on the Remote Contrnender

# Setting SPEAKER — MAIN or CENTER

Citck the rocker control.

The mode display turns red.

Follow these instructions to set SPEAKER to "CENTER" when you connect an audio system (p.19), and to "MAIN" when you want to listen to the sound from the projection TV

Press the rocker control up or down to select "MAIN" or "CENTER."

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Remote Con

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ESTATOEO HTS SPEAKER SPEAKER

Click the rocker control.

The setting is complete.

J)

1)

To return to the previous menu
Press the rocker control up or down until the cursor points to " ⊃ MENU."
Then click the rocker control. To return to the main menu

Repeat the above, until you reach the main menu. To return to the normal screen Press MENU on the Remote Commander.

POPROG PALETTE MEMORE SET OF THE CONTINUE OF T Press the rocker control up or down until the cursor points to "MODE SET."

PS-VIDEO : OFF MTS : HAIN SPEAKER : HAIN Click the rocker control.
The mode set menu appear

Press the rocker control up or down until the cursor points to "MAIN SPEAKER."

Press the rocker control up or down until the cursor points to "MTS."

Click the rocker control.

The mode display turns red.

Press the rocker control up or down to select the mode you want. you went. Each time you press the rocker control up or down, "MAIN," "SAP" and "MONO" appear in sequence.

Press MENU.
The main menu appears.

Click the rocker control.

The mode is selected.

PEPROG PALETTE
EIMODE SET
OTHE
COTHE
COTHE
CONTENDED
EICONVERGENCE
METTE FOR THE SET Press MENU. The main menu appears.

Press the rocker control up or down until the cursor points to "MODE SET."

# **CUSTOMIZING THE SCREEN DISPLAY** 1-14.

# Setting channel captions -- CH CAPTION

Press the rocker control up on down until the cursor points to "CH CAPTION."

letters. (You can set up to four letters or numbers).

Example: Caption channel 15 as "NBC."

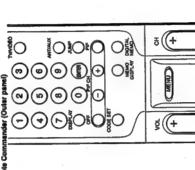
Remote Comm

S ...

CCH CAPTION

Click the rocker control,
The CH CAPTION screen appears.

Use [0-9]+[ENTER] to select the channel.



Press CH +/-, or press 1, 5 and ENTER to set channel "15."

2 In

ECH CAPTION

Use [0-9]+[ENTER] to select the channel.

Click the rocker control.
The first caption space turns red.

0

Press MENU. The main menu appears. Ŧ

POPROG PALETTE MINORE SET OTTAKE OTTA

Press the rocker control up or down to select "N." Each time you press the rocker control up or down, "O' - "9," "A" - "2; "8, "\," " and "." (blank space) appear in sequence.

 $\infty$ 

ECH CAPTION

Select the 1st letter.

RETURN CO EXT. (RES)

dun.

Press the rocker control up or down until the cursor points to "SET UP."

Click the rocker control.

The set up menu appears.

CABLE: ON MATO PROGRAM CH EASE/ADD CH CAPTION WIDEO LABEL OIRECT PLAY REAR SPEAKER: NO FAVORITE CHANNEL

ത

Click the rocker control.

The second caption space turns red.

Follow these instructions to caption each channel number display with a name, for instance, the television station call

PREAR VOLUME IMPUT BALANCE

**EREAR SPEAKER** 

Click the rocker control.
The REAR SPEAKER screen appears.

Set REAR SPEAKER to "YES" to use optional speakers as rear speakers (p. 21).

Setting REAR SPEAKER

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Remote Commender

Press the rocker control up or down until the cursor points to the item you want to adjust.

Click the rocker control.

The adjustment screen appears.

0

BREAR SPEAKER REAR VOLUME

Use the rocker control to make the adjustment.

P. PROG PALETTE CONTINE CONTIN

Press MENU.
The main menu appears.

REAR VOLUME

Press the rocker control down to decrease the rear speaker rolume. Press the rocker control up to increase the rear speaker NPUT BALANCE

Press the rocker control up or down until the cursor points to "SET UP."

Click the rocker control. The set up menu appears.

3

Press the rocker control down to improve the input balance. (Set to the lowest point for best input balance.)

White the INPUT BALANCE adjustment acreen is displayed, the sound from the front speakers is cut off. Setting REAR SPEAKER to "NO" does not turn off the rear speaker sound. Control the rear speaker volume with the REAR VOLUME adjustment.

CABLE: ON CARATO PROGRAM CHE EXSENDO CHE CAPTION VIDEO LABEL DIRECT PLAST REAR SPEAKER: NO CAPTION REAR SPEAKER: NO CAPTION CHEMING.

Click the rocker control. The setting is complete.

Press the rocker control up or down until the cursor points to "REAR SPEAKER."

4

Click the rocker control. The mode display turns red.

Press the rocker control up at down until the cursor points to "  $\supset$  MENU." Then click the rocker control. Repeat steps 1 - 11, and select "NO" in step 6. To return to the previous menu To set REAR SPEAKER to "NO

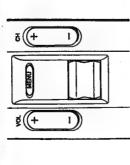
Repeat the above, until you reach the main menu. To return to the normal screen Press MENU on the Remote Commander. To return to the main menu

Press the rocker control up or down to select "YES."

6

Setting channel captions – CH CAPTION (Contd. from prey, page)

temote Commander



Press the rocker control up or down to select "B."

Select the 2nd letter. merica erres es miles ECH CAPTION

Click the rocker control.

The third caption space turns red.

Press the rocker control up ar down to select "C." Select the 3nd letter. ECH CAPTION

Click the rocker control.
The fourth caption space furns red.

SALECTÓR METARES ENTREME

Press the rocker control up or down to select a blank space.

Select the 4th letter அவார் எம்பர் வாகு ECH CAPTION

Click the nother control.

The setting is complete.
When you select or display the channel number, the channel cumber, the

To caption more channels Repeat steps 6 - 15.

the caption you want to erase, and select blank spaces for the channel caption; then click the rocker control. The caption for that channel is erased. Display the CH CAPTION screen, select the channel with To erase unnecessary captions

Click the rocker control.

The set up menu appears.

Press the rocker control up or down until the cursor points to " 

MENU." Fo return to the previous menu

Then click the rocker control.

Repeat the above, until you reach the main menu. To return to the mein menu

To return to the normal screen Press MENU on the Remote Commander

You can set up to 32 channel captions. If the memory is full, The memory is full, sorry appears on the acreen. Erase any unrecessary captions, and begin again.

Setting VIDEO LABEL

Follow these instructions to label each input mode, in order to identify the equipment connected to each input terminal.

Example: Label VIDEO 1 IN as "VHS."

Press MENU. The main menu appears.



Press the rocker control up or down until the cursor points to "SET UP."

PCABLE: OFF NATO PROGRAM CH CAPTION CH CAPTION VIDEO LABEL DIRECT PLAY FRAN SPEKER FAVORTE: CHANNEL SHENI

Press the nocker control up or down until the cursor points to "VIDEO LABEL."

ENTOEO LABEL Gick the rocker control.

The VIDEO LABEL screen appears.

WIDEOT: WIDEO 1 WIDEOZ: WIDEO 2 WIDEO3: WIDEO 3

SERICE COMMENDE STATES

Press the rocker control up or down until the cursor points to the input mode you want to label. (In this case, the cursor is already pointing to "VIDEO 1.")

Click the rocker control.
The label display turns red.

Press the rocker control up or down to select "VHS." VIDEO1: VHS VIDEO2: VIDEO 2 VIDEO3: VIDEO 3 ENIDEO LABEL

Each time you press the rocker control up or down, the label changes:

Marce de servera de servera

VIDEO 1 → BETA → 8mm → VHS → LD → S-VIDEO

Click the rocker control.
The setting is complete.
Thins rout select or display the video mode, the video label appears. ത

To tabel other input modes Repeat steps 6 – 9.

To return to the previous menu Press the rocker control up or down until the cursor points to ⇒ MENU. Then click the rocker control. To return to the main menu To change a label Same as above.

Repeat the above, until you reach the main menu.

To return to the normal screen
Press MENU on the Remote Commander.

# USING TIMER-ACTIVATED FUNCTIONS 1-15.

### Setting DAYLIGHT SAVING

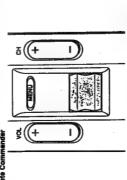
If you live in an area that uses daylight savings time, set DAYLIGHT SAVING to "YES" or "NO" depending on the season, before settling the current time. At the next daylight savings date, you will be able to automatically adjust all the time-related settlings (CURRENT TIME, ONVOFF TIMER and CHANNEL BLOCK) simply by changing the DAYLIGHT SAVING setting.

When setting DAYLIGHT SAVING:

• After the first Sunday in April (spring daylight savings)
Set to "YES" before setting the current time.
Then, on the lest Sunday in October (fall daylight savings), set to "NO." All the time-related settings automatically move one frour back.

After the last Sunday in October (fall daylight savings) Set to "NO" before setting the current time. Then, on the first Sunday in April (spring daylight

savings), set to "YES." All the time-related settings automatically move one hour ahead.



Follow these instructions to set DAYLIGHT SAVING to "YES" or "NO."

Press MENU.
The main menu appears.



 $\boldsymbol{2}$  Press the rocker control up or down until the cursor points to "TIME."

Click the rocker control.

CONTROL TIME SET ON/OF TIMER ON/OF TIMER ON/OF TIMER DEOCK DAYLIGHT SAVING:NO SMENU

Example: Set the time to 3:15 PM, Monday.

Press MENU.
The main menu appears.

Press the rocker control up or down until the cursor points to "DAYLIGHT SAVING."

Click the rocker control.

The mode display turns red S Press the rocker control up or down to select "YES" or "NO."

The setting is complete. G

Click the rocker control.

Press the rocker control up or down until the cursor points to "  $\supset$  MENU." To return to the previous menu Then click the rocker control.

Repeat the above, until you reach the main menu. To return to the main menu

To return to the normal acreen. Press MENU on the Remote Commander.

# To set daylight saving Setting the clock — CURRENT TIME SET

Press the rocker control up or down until the cursor points to "DAYLIGHT SAVING." Click the rocker control. ٩

Follow these instructions to set the current time. The correct current time must be set in order to use the other time-related functions (DAYLIGHT SAVING, ON/OFF TIMER, CHANNEL BLOCK).

Click the rocker control

Ö

The time menu appears, and the cursor points to TDAYLIGHT SAVING."

Press the rocker control up or down to select "YES" or "NO." σ

Click the rocker control. The setting is complete.

PZPROG PALETTE
MINODE SET
OTIME
STATE
OTIME
CHARLISH
GEONVERGENCE

Press the rocker control up or down until the cursor points to "CURRENT TIME SET"; click the rocker control, then continue from step 5. To set the time

Click the rocker control.

The CURRENT TIME SET screen appears, and the "SUN" display appears (red). S

Press the rocker control up or down until the cursor points to "TIME."

Press the rocker control up or down to select "MON."

Each time you press the rocker control up or down, the day changes consecutively.

Click the rocker control.
The time menu appears, and the cursor points to "CURRENT TIME SET."

က

Select today's day. **OCURRENT TIME SET** HON 12:00 AH START

DEUBRENT TIME SET ON/OFF TIMES CHANNEL BLOCK DAYLIGHT SAVING:NO

(Continued)

Click the rocker control again.
The CURRENT TIME SET screen appears, with a reminder to set DAYLIGHT SAVING. OCURRENT TIME SET DAYLIGHT SAVING

If you do not need to set DAYLIGHT SAVING, click the rocker control and continue from step 5.

Set DAYLIGHT SAVING first if needed.

Setting the clock — CURRENT TIME SET (Contd from prev. page)

Click the rocker control.
The hour and ampim displays fum red.

Press the rocker control up or down to set "3:00PM."

Each time you press the rocker control up or down, the hour changes in sequence beginning with "12:004M."

OCURRENT TIME SET
HON 3:00 PM
START
SET the time.
Set the time.

Click the rocker control.

The minute display turns red,

Press the rocker control up or down to select \*15" (minutes) Each time you press the rocker control up or down, the minutes change in sequence.

GCURRENT TIME SET
NOM 3:15 PM
5TART
5 Set the time.
surrib errors; unions

Click the rocker control.
The cursor points to START."

Check the actual time, and click the rocker control
to start the clock.
The setting is complete.

To reset the time Display the CURRENT TIME SET screen and repeat steps

To display the current time Press DISPLAY. To return to the previous menu
Press the rocker control up or down until the cursor points to ~ D MENU.\*
Then click the rocker control.

To return to the main menu Repeat the above, until you reach the main menu.

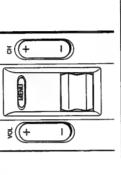
To return to the normal acreen. Press MENU on the Remote Commander.

### Setting the ON/OFF TIMER

Follow these instructions to make the program of your choice appear on the screen at a specified time.

Example: Set the timer to turn on the projection TV every Monday through Friday at 1:30 AM for 3 hours, on channel 8, as PROGRAM 1. (You can set up to three programs.)

Remote Commander



Press MENU. The main menu appears.



Press the rocker control up or down until the cursor points to "TIME."

Click the rocker control.

The time menu appears.

O DEURRENT TIME SET ON O'DF TIMER ON O'DF TIMER DEUR DEUR DAYLIGHT SAVING:NO CHEN

Click the rocker control.
The OWOFF TIMER screen appears, and the cursor points to '1,"

Select a program.

To set program 1, click the rocker control.

(To set program 2 or 3, press the rocker control up or down until the curron points to that program; then click the control.)

The day input space furns red.

Press the rocker control up or down to select "EVERY MON-FRI"; then click the rocker control. Each time you press the rocker control up, the days of the week change as shown in Fig. 1 (p. 67).

SON/OFF TIMER

1. EVERY MON-REI

2. ....AM .H CH...

3 .....AM .H CH...

Set the time.

start of the start

start of the start of the start

start of the start

Press the rocker control up or down to select
1:00AM\*; then click the rocker control.
Each time you press the rocker control up or down, the hour changes in sequence.

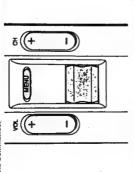
Set the time.

(Continued)

Press the nocker control up or down until the cursor points to "ON/OFF TIMER."

# Setting the ON-OFF TIMER (Cont'd from prev. page)

Remote Commander



Press the rocker control up or down to select "30" (minutes):
Then dick the rocker control.
Each time you press the rocker control up or down, the minutes change in sequence.



Press the rocker control up or down to select "3" (hour durstion); then click the rocker control. Each filme you press the rocker control up or down, the durstion changes from "1" - "5" is sequence.

GON/OFF TIMER 1.EVERN HON-FRI 2.130AN 3H CH 3 3AM ,H CH Set the channel nurty enemy union
OON/OFF TIMER 1.EVERY MON- 1.30AN 3H 3AN .M Set the channe
Set the
<u> </u>

Press the rocker control up or down to select "8" (channel); then click the rocker control.

The TIMER/STAND BY indicator lights, indicating that the setting is complete.

Each time you press the rocker control up or down, the channel number changes from 1 – 125 in sequence.

3.....AN .H CH... OON/OFF TIMER
1.EVERY MON-FRI
1:30AM 3H CN B

Select a program.

The display "TV WILL TURN OFF" appears on the screen one minute before the timer duration ends.

Click the rocker control and repeat steps 6 - 11. To set program 2 or 3.

To erase an ONOFF TIMER setting Display the ONOFF TIMER screen, select the setting you want to erase, and select the underlined spaces for the day

To enter a new OWOFF TIMER setting Display the OWOFF TIMER screen and repeat steps 6 – 11.

The ONOFF TIMER setting is enseed.

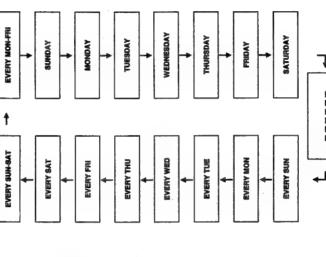
To return to the previous menu Press the rocker control up or down until the cursor points to " J MENU."

Repeat the above, until you reach the main menu. To return to the main menu Then click the rocker control.

To return to the normal screen. Press MENU on the Remote Commander.

Note if you unjug the projection TV or a power failure occurs, both the first unjug the projection TV or a power failure occurs, both the cock and three settings will be enseed. Reset the times.

Selecting the day(s) of the waek
When you press the rocker control up, the days of the week
sppear in the following order:

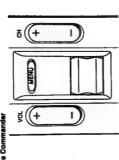


### Setting CHANNEL BLOCK

Follow these instructions to prevent a channel from appearing on the screen during the time that you specify. You can use this function to prevent children from watching unsuitable programs.

Example: Set CHANNEL BLOCK every Saturday at 4:30 PM for 1 hour, on Channel 12.

Remote Commander



Note if you have not set the current time, the "CHANNEL BLOCK" display is shaded and cannot be selected.

Press MENU. The main menu appears.

P.C. PROG PALETTE
FINANCE SET
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SET UP
FINANCE SET OF
SET UP
SET U

Press the rocker control up or down until the cursor points to "TIME."

Click the rocker control. The time menu appears. 3 CURRENT TIME SET ON/OFF TIMES CHANNEL BLOCK CHANNEL BLOCK DAYLIGHT SAVING:NO

Press the rocker control up or down until the cursor points to "CHANNEL BLOCK."

Click the rocker control.

The CHANNEL BLOCK screen appears, and the cursor points to the day input space. D

BERTELLE BERTER CHILEREN ....AM .H CH... **GCHANNEL BLOCK** 

Click the rocker control.

The day input space turns red.

S ....AM ..H CH.... Set the day. **OCHANNEL BLOCK** 

Press the nocker control up or down to select "EVERY SAT"; then cliek the nocker control. Each time you press to nocker control up or down, the days of the reset change as shown in Fig. 1 (p. 67).

EVERY SAT 12:00AM \_H CH.\_ Set the time. **GCHANNEL BLOCK** 

Press the rocker control up or down to select
4.00PM\*; then click the rocker control.

Each time you press the rocker control up or down, the hour changes in sequence

OCHANNEL BLOCK

Set the time. margo moments and CO EVERY SAT 4:00PM \_H CH\_\_

To erase a CHANNEL BLOCK setting Display the CHANNEL BLOCK screen and select the underlined spaces for the day setting. The CHANNEL BLOCK setting is ansect.

Press the rocker control up or down to select "30" (minutes); then click the rocker control.

Each time you press the rocker control up or down, the

minutes change in sequence.

To enter a new CHANNEL BLOCK setting Display the CHANNEL BLOCK screen and repeat steps 4 – 10. (You can only set one CHANNEL BLOCK at a time.)

Press the rocker control up or down until the cursor points To return to the previous menu Then click the rocker control. to " > MENU."

EVERY SAT 4:30PM .H CH...

**GCHANNEL BLOCK** 

Set the duration.

Repeat the above, until you reach the main menu. To return to the main menu

Press the rocker control up or down to select "1" (hour duration); then click the rocker control. Each time you press the rocker control up or down, the

duration changes from "1" - "6" in sequence.

To return to the normal screen. Press MENU on the Remote Commander.

Note If the ONOFF TIMER is set for an overlapping time (pp. 87 – 69), the later time setting takes precedence. For example, if CHANNEL BLOCK is set for 2:00 PM and ONOFF TIMER is set for 3:00 PM, ONOFF TIMER has the 3:00 PM.

EVERY SAT 4:30PM IH CH...

**GCHANNEL BLOCK** 

Set the channel.

Press the rocker control up or down to select "12" (channel); then click the rocker control. The setting a complete a control. Each time you press the rocker control up or down, the channel number changes from "1" = "125" in sequence.

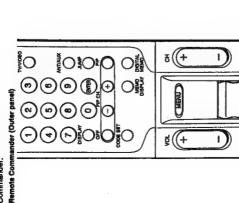
PEVERY SAT 4:30PM 1H CH 12 இறப்பட்டு மடிய ஷ்பர்க **OCHANNEL BLOCK** 

At the specified time, "BLOCKED" appears in red on the screen, and the picture of the specified channel is blocked and the sound I muted.

BLOCKED

# 1-16. SETTING FAVORITE CHANNEL

By setting FAVORITE CHANNEL, you can select the channels you use most frequently (up to seven channels) simply by clicking the rocker control on the Remote Commander.



Glick the rocker control.

The FAVORITE CHANNEL acres appears, and the cursor points to the first channel position. Set the position to input the 5-channel. ESFAVORITE CHANNEL

Press the rocker control up or down to select the charmel position; then click the rocker control.

Press 0 – 9 and ENTER to set the channel number. E FAVORITE CHANNEL Use[0.9]+ [ENTER] to select the channel.

Click the rocker control.

The setting is complete.

To set other channels

Repeat steps 6 - 8.

POPROG PALETTE
BIHODE SET
OFTINE
CONTINE
CONVERGENCE

Press the rocker control up or down until the cursor points to the channel number you want to erase; click the rocker control, then press 0 and ENTER. To erase a favorite channel setting

To reset a favortle channel settling Display the FAVORITE CHANNEL screen and repeat steps 6 - 8.

Press the rocker control up or down until the cursor points to 'SET UP."

Click the rocker control.
The set up menu appears.

Repeat the above, until you reach the main menu. ⇒ MENU.\* Then click the rocker control. To return to the main menu

PORTER ON MAND PROGRAM CH EXACKADO CH CAPTION VIDEO LASEL DIRECT PLAY FRAN SEAKER NO FAVORTE CHANNEL SHEU

To return to the previous menu Press the rocker control up or down until the cursor points to

To return to the normal acreen. Press MENU on the Remote Commander

Selecting a favorite channel

Press the rocker control up or down until the cursor points to "FAVORITE CHANNEL."

After setting the channels, follow these instructions to select the channel you want to watch.

Click the rocker control.

The FAVORITE CHANNEL display appears.

BBESPN 2CNN 56HB0 ₹28 3505NY 23NTV

if you have set channel captions (pp. 61 - 62), the captions appear with the channel rumbers. Note

Press the rocker control up or down to select the channel you want to watch; then click the rocker

The channel is selected.

If you click the rocker control on the Remote Commander before setting FAVORITE CHANNEL, this screen appears

Comment of the Commen

Please go to SET UP in the menu. Set your favorite channels first.

Follow steps 1 – 8 to set your favorite channels, and then make the selection.

Follow thase instructions to set the channels.

Press MENU. The main menu appears.

# 1-17. USING THE PROGRAMMABLE REMOTE COMMANDER

You can operate other video equipment (such as VCRs, video disc players and cable boxes) that have an infrared remote detector with this supplied Remote Commander.

Use the video operating buttons to control the connected equipment.

Press POWER.

Fig. 3: Operating a VCR (VTR1, 2, 3)

To turn on or off

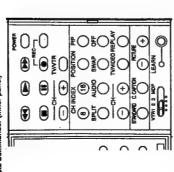
Press CH +/-.

To change channels (when watching TV programs through the VCR's tuner) To record

# Operating Sony video equipment

Follow these instructions to operate Sony video cassette recorders (Beta, 8 mm and VHS) and video disc players (Including multi-disc players).

Remote Commender (Inner panel)



Set the VTR1-2-3 MDP selector according to the video equipment you want to operate.



### Fig. 2: Video equipment settings

If you want to operate a:	set to:
Beta, ED Beta VCR	VTR 1
8 mm VCR	VTR 2
VHS VCR	VTR3
Video disc player	MDP

Fig. 4: Operating a V	Fig. 4: Operating a Video Disc Player (MDP)
To turn on or off	Press POWER.
To play	Press ▶.
To stop	Press III.
To pause	Press III.
	To resume normal playback,
	press again.
	Note
	This function is effective only for
	CAV (standard-play disc). With CLV
	(extended-play disc), the projection TV
	goes off (standby mode) if you press III.
To search the	Keep pressing ►► or ◄◄
picture forward	during playback.
and backward	To resume normal playback,
	the first first for the section of

Press 44.
Press III.
To resume normal playback, press again.

Press ...

To rewind the tape

To fast forward

Press • and REC simultaneously.

Press ▶. Press

To play To stop

- If the video equipment does not have a certain function, the corresponding button on this Remote Commander will not operate.
- if you set another manufacturer's code to a VTR1-2-3 MDP selector position (pp. 7ff 77), you must also set the Sony code to operate Sony equipment.

Keep pressing ▶▶ or ←← during playback.

To resume normal playback, release the button.

To search the picture forward and backward

Press TV/VTR.

To change input mode

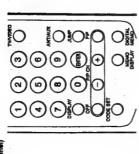
When you replace the betterles, do it within approximately 30 minutes. Otherwise the settings you made under the Pre-Programmed function (pp. 76 – 78) and Learning function (p. 79) may be ensed.

# Operating non-Sony or Sony video equipment

Follow these instructions to set the manufacturer's code, which will enable you to operate non-Sony and Sony video equipment with the pre-programmed Remote Commander.

Example: Operate an RCA video cassette recorder connected to the VIDEO 2 IN jacks.

Remote Commander (Outer panel)



(Inner panel)

Set the VTR1-2-3 MDP selector to VTR2.

Note Tai use another manufacturer's equipment besides a Sony VCR, set the selector to a position not being used for your Sony video equipment.

White pressing CODE SET, press 0, 7 and ENTER to set RCA's code number, (For manufacturer code numbers, see Figs. 5, 6 and 7 cn p. 77.)

A long beep sounds, indicating that the code has been set.

Note if you press a wrong code, or if the code has not been set, four short beeps sound. Repeat step 3 to set the code.

Use the video operating buttons to operate the connected equipment. (see Fig. 3 on p. 74 and Fig. 4 on p. 75.)

	CODE
Mer code n	
	CTURER
	MANUFACTUR

Fig. 7: Sony Equipment and Code Numbers

MANUFACTURER	CODE	SONY EQUIPMENT	CODE
SONY	01, 02, 03	Beta, ED Beta VCR	01
CANON	05		88
EMERSON	22, 30, 33		83
FISHER	10, 11, 12, 15	player	2
FUNAL	29		
GENERAL ELECTRIC	05, 08	Note	
GOLDSTAR	25	in some rare cases, you may not be able to operate your non-Sony video excitoment with the emplay Denote Commender. This is	to operate your non-Sony
HITACHI	07, 08, 36	because your equipment may use a code that is not provided with	that is not provided with
JVC	16, 35	this Remote Commander, in this case, please use the equipment's	ease use the equipment's
MAGNAVOX	02, 06, 09	own remote control unit.	
MITSUBISHI	18, 19, 26, 27		
MULTITECH	29		
NEC	16, 23, 31		
PANASONIC	90,08		
PHILCO	02, 06		
PHILIPS	05, 06, 09		
QUASAR	05, 06		
RCA	07, 08		
SAMSUNG	24, 32		
SANYO	11, 15		
SCOTT	21		
SHARP	13, 14		
SHINTOM	34		
SYLVANIA	02, 08, 09		
SYMPHONIC	29		
TEKNIKA	28, 29		
TOSHIBA	20,21		
TOTE VISION	25		
ZENITH	4)		

MANUFACTURER	CODE
SONY	3
KENWOOD	88
MAGNAVOX	25
MARANZ	25
MITSUBISHI	51
PANASONIC	22
PHILIPS	23
PIONEER	91
RCA	51
SANYO	22
SHARP	95
YAMAHA	8

# Selecting a VCR mode directly — DIRECT PLAY

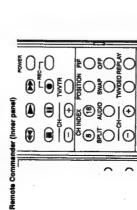
Click the rocker control.

The set up menu appears.

Follow these instructions to switch from TV to VCR mode by simply pressing the ▶ (playback) button on the supplied. Remote Commander.

Exemple: Connect your VCR to the VIDEO 1 IN Jacks, and set the VKR1-2-3 MDP selector to VTR2. When you press P., the input mode charges to the VCR connected to the VIDEO 1 IN Jacks.

After completing the steps below, the VTR selector position is relained in the projection TV's memory.



Press the rocker control up ar down until the cursor points to "DIRECT PLAY."



Note
This screen reminds you to
set the manufacturer's code, if you
have not afreedy done so (pp. 76 – 78).

ō(+

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J)

1)

Press MENU.
The main menu appears.

0

Glick the rocker control again.

The DIRECT PLAY screen appears.



Press the rocker control up or down until the cursor points to the video input mode. (When the video equipment is connected to VIDEO 1 IN, select "VIDEO1.")

PZPROG PALETTE
EMODE SET
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ENGLISH
ENGLISH
ERROF STROME TO THE

Click the rocker control.

The mode display turns red.

ED LABLE: DW MAND PROGRAM CAN EXECADO CH CAPTION VIDEO LABEL DIRECT PLAY REAR SPEAKER: NO PARIOUS CHANNEL CHAN

Press the rocker control up or down to select the VTR selector mode you have set on the Remote Commander. (When the VTR1-2-3 MIDP selector is set to VTR2, select "VTR2-3" Each time you press the rocker control up or down, "VTR 1," "VTR 2," "VTR 3," "MID" and "OFF" appear in sequence.



Click the rocker control.
The direct play setting is complete.

To set direct play for other connected video equipment Repeat steps 7 - 10.

To return to the previous menu Press the rocker control up or down until the cursor points

Then click the rocker control. to " C) MENU."

Repeat the above, until you reach the main menu. To return to the main menu

To return to the normal screen. Press MENU on the Remote Commander.

Press the rocker control up or down until the cursor points to "SET UP."

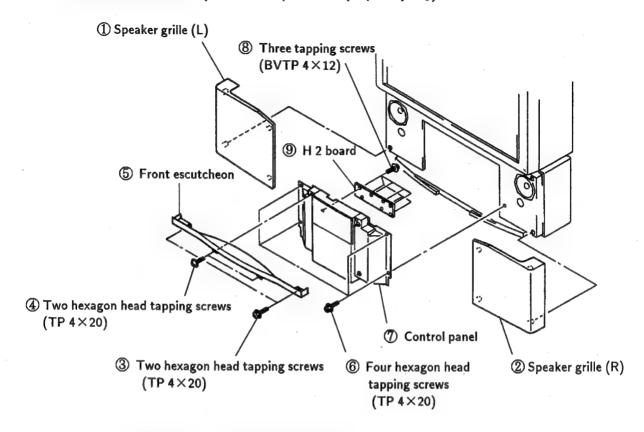
# 1-18. TROUBLESHOOTING

Disturbances in picture and sound can often be eliminated by checking the symptoms and following the suggestions listed here. If the problem still cannot be solved, contact your nearest service facility.

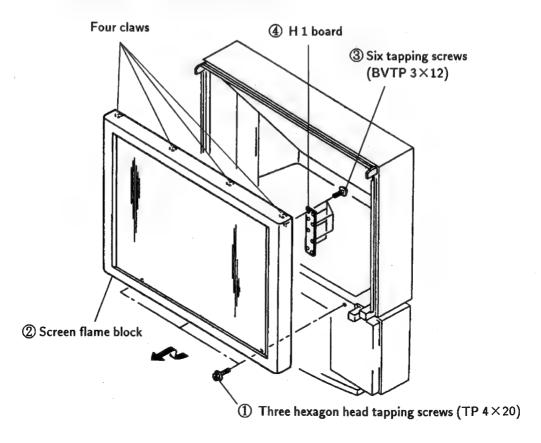
	Possible causes and remodiles
symptom	
Na picture (screen nat lit), no sound	Make sure POWER is switched on.     Check the power cord connection.     Check that the TV/NIDEO and VTR1-2-3 MDP controls are set correctly.     Make sure that the TV/CABLE BOX selector is set to TV.
Poor or no picture (screen not iit), good sound	<ul> <li>Adjust the picture using the VIDEO screen (pp. 50 – 53).</li> <li>Check the anierna/cable connections.</li> <li>Adjust the color registration (pp. 26 – 27).</li> </ul>
Good picture, no sound	Press VOLUME + on the projection TV or VOL + on the Remote Commander.     Press MUTING on the Remote Commander.     Check the MTS setting (p. 58).     Check the MTS setting (p. 58).     Check that the TV/NIDEO and VTR1-2-3 MDP controls are set correctly.     Make sure SPEAKER is set correctly (p. 59).
No color for color programs	<ul> <li>Check the HUE and COLOR settings (pp. 50 – 51).</li> </ul>
Snow and noise only	Check that it is an active or correct channel.     Check the cable setting.     Check the ANT/AUX button setting.     Check the ANT/AUX button setting.     Check antennal/cable connections.
Dotted lines or stripes	This is often caused by local interference (for example, cars, neon signs and hairdryers). Adjust the telescopic serial for minimum interference.
Double images or ghosts	Reflections from nearby mountains or buildings often cause this problem. Connecting a highly directional outdoor antenna or a CATV cable may improve the picture.
Remote control does not operate	Check the battary in the Remote Commender.
No picture and/or sound for the connected equipment	Check that the TV/VIDEO button is set correctly.     Check that the connections are properly made.     Check that the power of the connected equipment is turned on.     Check that the connected equipment is set correctly.
Try another chan	Try another channel. It could be station trouble.

# SECTION 2 DISASSEMBLY

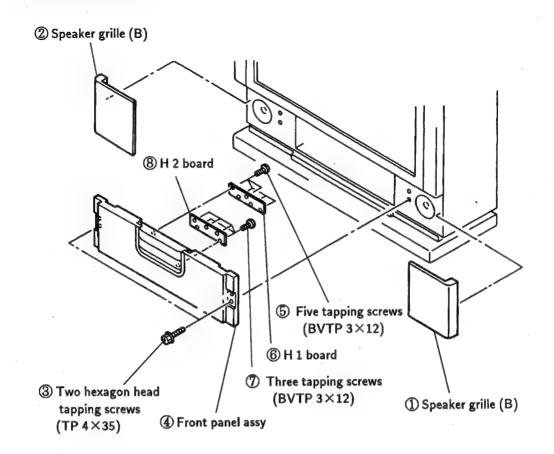
## 2-1. H2 BOARD REMOVAL (KP-46XBR35/53XBR35 (US/CND) only)



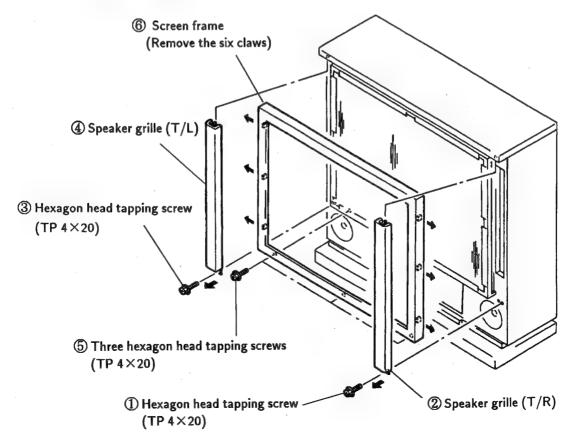
## 2-2. H1 BOARD REMOVAL (KP-46XBR35/53XBR35 (US/CND) only)



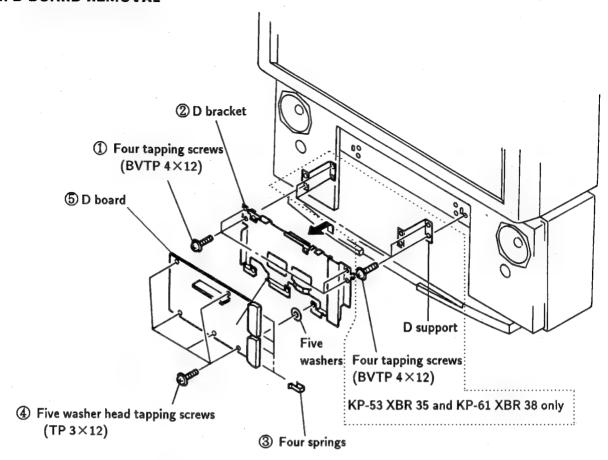
## 2-3-1. H1 AND H2BOARDS REMOVAL (KP-61XBR38 only)



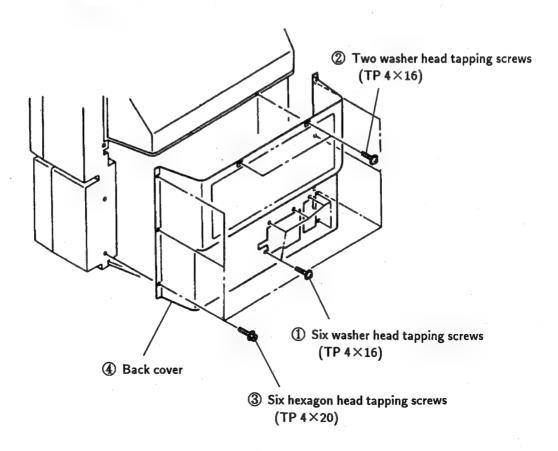
### 2-3-2. SCREEN FRAME REMOVAL (KP-61XBR38 only)



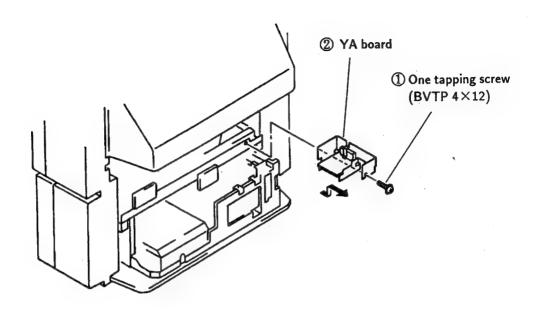
#### 2-4. D BOARD REMOVAL



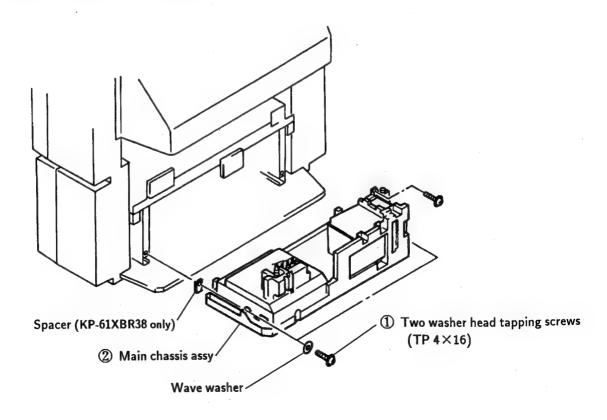
#### 2-5. BACK COVER REMOVAL



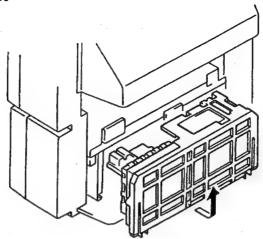
## 2-6. YA BOARD REMOVAL



## 2-7. MAIN CHASSIS ASSY REMOVAL



#### 2-8. SERVICE POSITION



#### **NOTES INSERTED IN SERVICE POSITION SECTION**

Service Position Procedure

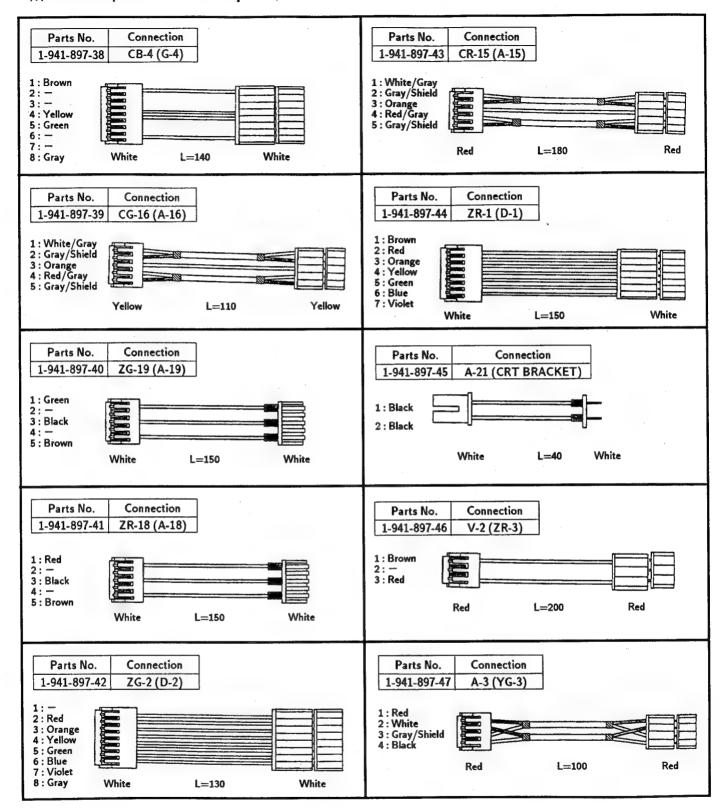
- (1) Remove the path locks where the harness comes into. (MAIN bracket, G shield)
- (2) Remove the following connectors before removing the main bracket.
  - \* HV grounding lead, G shield grounding lead, uT35 grounding lead (uT board), V-2 connector (V board).
- (3) Remove the main bracket. (Take care as the connector leads linking to the C and Z boards are considerably short.)
  (MAIN bracket, G shield)
- (4) When pulling out the main bracket with power ON, be sure to connect the connectors removed.
  - \* HV grounding lead, G shield grounding lead, uT35 grounding lead (uT board).

In case that grounding lead (Black) of HV Block is not connected with chassis grounding, it causes arcing of CRT and it is dangerous.

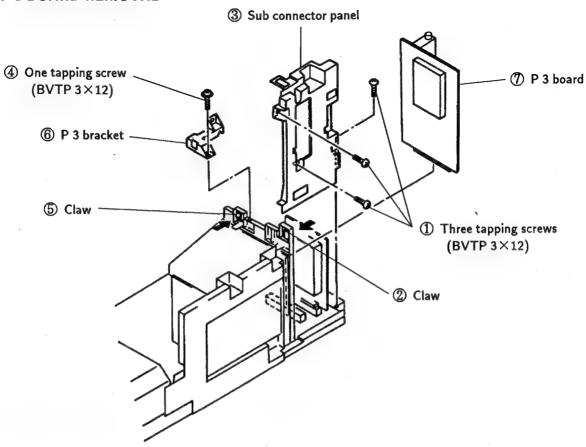
Be sure to connect grounding lead of HV Block with chassis grounding.

#### **CONNECTOR CABLES**

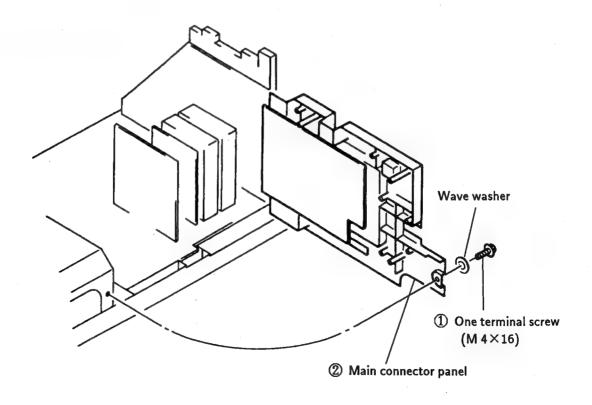
in order to put the set in the service position, use the extension connector cables below.



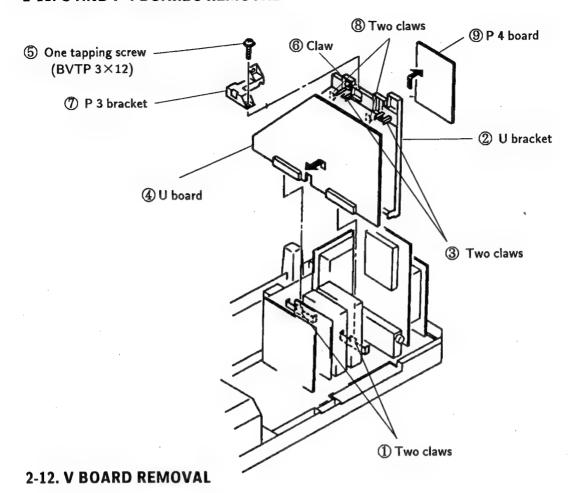
#### 2-9. P 3 BOARD REMOVAL

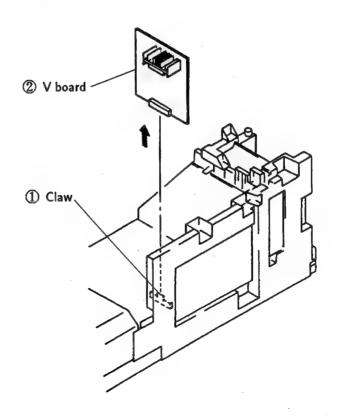


### 2-10. MAIN CONNECTOR PANEL REMOVAL

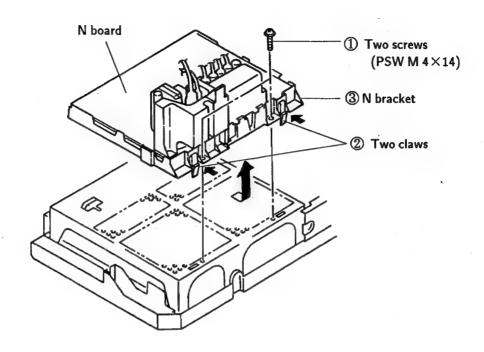


## 2-11. U AND P 4 BOARDS REMOVAL

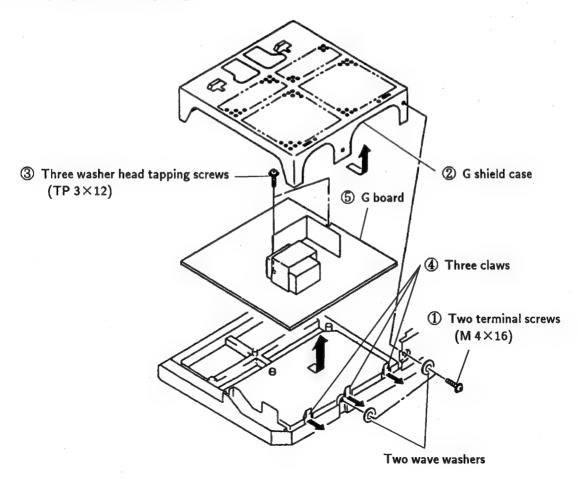


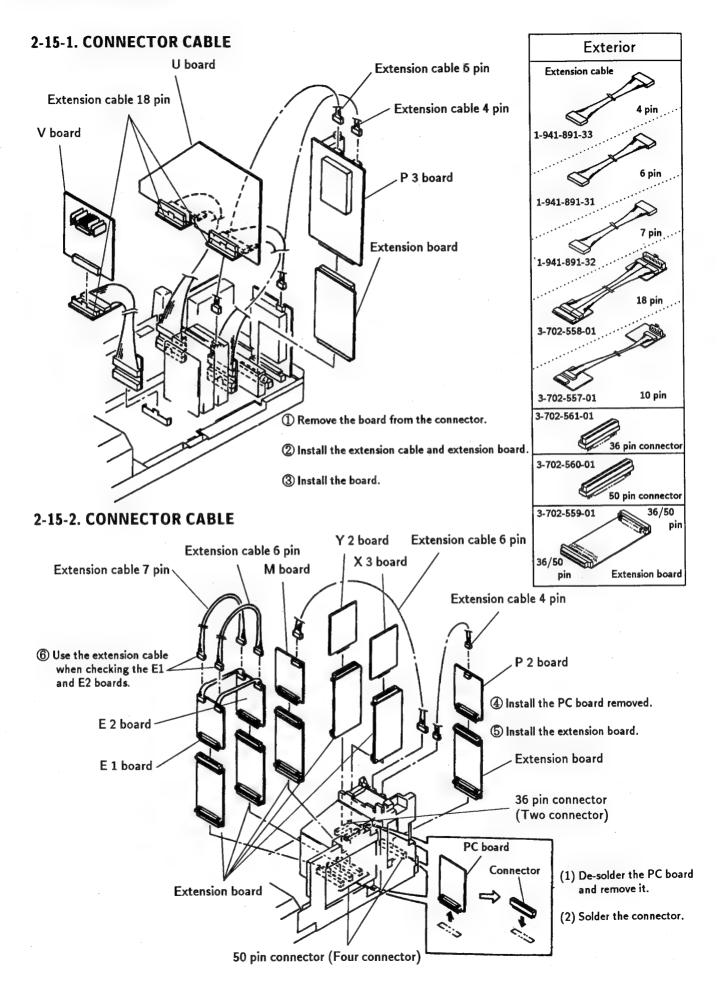


#### 2-13. N BRACKET REMOVAL

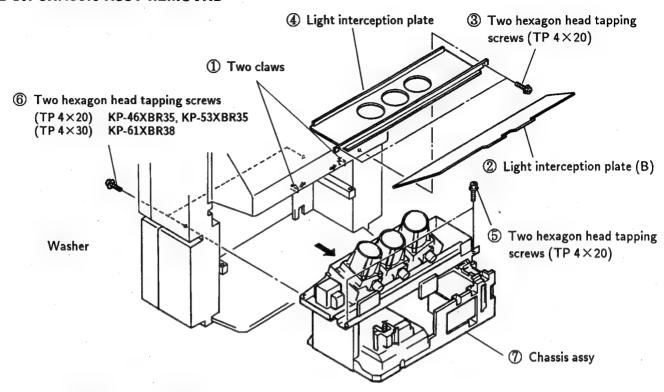


#### 2-14. G BOARD REMOVAL

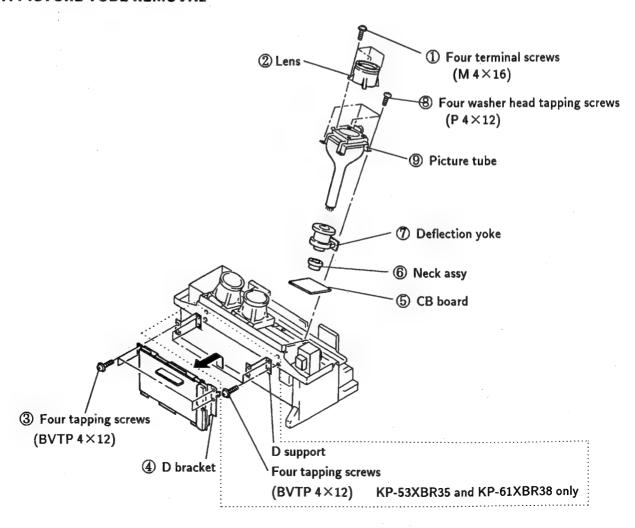




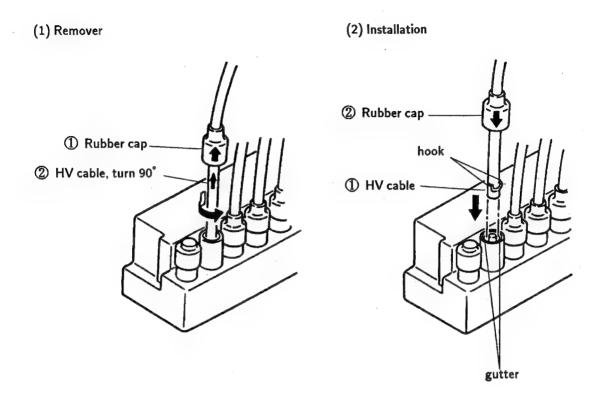
#### 2-16. CHASSIS ASSY REMOVAL



#### 2-17. PICTURE TUBE REMOVAL



## 2-18. HIGH-VOLTAGE CABLE INSTALLATION AND REMOVAL

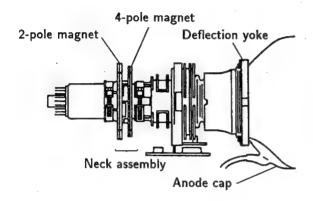


### **SECTION 3**

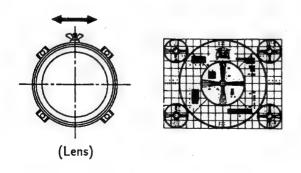
### **SETUP ADJUSTMENTS**

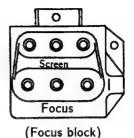
#### 3-1. FOCUS LENS ADJUSTMENTS

- Set the D-board registration variable resistors (VR) to mechanical center.
- 2. Set the centering magnets (for red, green, and blue) to 0 as shown in the figure.



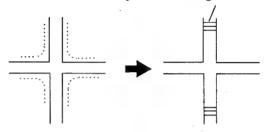
- Input monoscope signal. Set 50% BRIGHTNESS and minimum PICTURE. Make rough adjustment so that 10IRE of the monoscope signal becomes faintly luminous using the screen VRs.
- Set PICTURE and BRIGHTNESS maximum.
   Press the commander menu button. Select
   CONVERGENCE to display test signal.
- Enter service mode. Select R OFF of SERVICE MODE to cut off red output.
   Similarly, select B OFF to cut off blue output.
- 6. Turn the green lens to eliminate flare of the test signal.



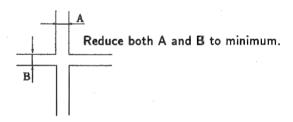


,

Verify that scanning lines are seen.



7. Turn the green focus VR in the focus block to adjust green focus to reduce both A and B of the test signal to minimum.



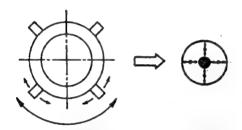
- 8. Repeat avobe 6 and 7. Couple of times to improve tracking and obtain an optimum focus. Then tighten the green lens screw.
- 9. Adjust the red and blue focuses similarly.

## 3-2. DEFLECTION YOKE POSITION ADJUSTMENTS

- 1. Input monoscope signal.
- Enter service mode. Select R OFF of SERVICE MODE to cut off red output.
   Similarly, select B OFF to cut off blue output.
- 3. Loosen the deflection yoke (DY) fitting screws. Tilt the DY to obtain the best horizontal and vertical monoscope patterns.
- 4. After adjustment, press the DY onto the cathode ray tube (CRT) funnel and tighten the screws.
- 5. Also adjust DY positions for red and blue outputs in the same way.

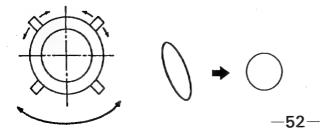
#### 3-3. 2-POLE MAGNET ADJUSTMENT

- 1. Input dot signal.
- Enter service mode. Select R OFF of SERVICE MODE to cut off red output.
   Similarly, select B OFF to cut off blue output.
- Set PICTURE to maximum. Turn the green focus variable resistor (VR) in the focus block counterclockwise from the just focus to brighten the point in the dot.
- 4. Adjust the 2-pole magnet to position the bright point at the center of the dot.
- 5. Adjust the red and blue dots in the same way.
- \* Use the center dot:red and green
  Use the vertical center and left end dot :blue



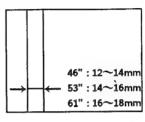
#### 3-4, 4-POLE MAGNET ADJUSTMENT

- 1. Input dot signal.
- Enter service mode. Select R OFF of SERVICE MODE to cut off red output.
   Similarly, select B OFF to cut off blue output.
- Set PICTURE to maximum. Turn the green focus
  variable resistor (VR) in the focus block clockwise
  (count clockwise:blue)from the just focus until the
  dot diameter becomes as shown below.
- 4. Adjust the 2-pole magnet to make the dot perfectly round.
- 5. Turn the green focus variable resistor to the just focus.
- 6. Adjust the red and blue dot in the same way.
- \* Use the center dot : red and green
  Use the vertical center and left end dot : blue



## 3-5. DE-FOCUS ADJUSTMENT (BLUE)

- 1. Input cross hatch signal.
- 2. Turn the blue focus variable resistor (VR) in the focus block counter clock wise so that the width of the left end vertical line becomes as shown below.

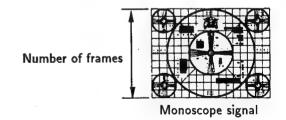


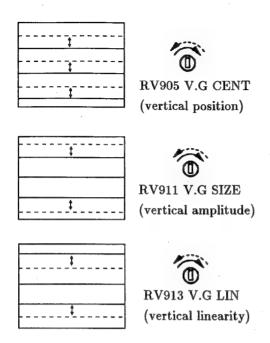
without flare

#### 3-6. GREEN PICTURE ADJUSTMENTS

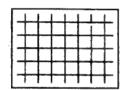
- 1. Input monoscope signal.
- Enter service mode. Select R OFF of SERVICE MODE to cut off red output.
   Similarly, select B OFF to cut off blue output.
- Turn RV913 and RV960, the vertical green linearity variable resistors (V.G LIN VRs) on the D-board, to obtain an optimum vertical linearity. Then turn RV911, the vertical green amplitube variable resistor (V.G SIZE VR) to set vertical amplitude to 11.7 flames.

Note: The vertical position indicator of the monoscope signal must be positioned at the center by adjusting RV905, the vertical green center position variable resistor (V.G CENT VR) in advance.





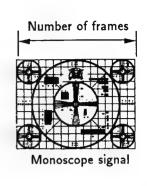
5. Verify that the horizontal lines on the top and bottom of cross-hatched area of the monoscope signal are horizontal and linear.

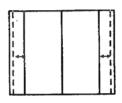


6. Turn RV916, RV964 and RV969, the horizontal green linearity variable resistors (H.G LIN VRs) on the D-board, to obtain an optimum horizontal linearity.

Then turn RV908, the horizontal green amplitude variable resistor (H.G SIZE VR) to set horizontal amplitude to 15.6 frames.

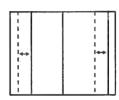
Note: The horizontal position indicator of the monoscope signal must be positioned at the center by adjusting RV902, the horizontal green center position variable resistor (V.G CENT VR) in advance.







RV908 H.G SIZE (horizontal position)





RV916 H.G LIN (horizontal linearity)

7. Input cross hatch signal.
Turn vertical green (V.G) and horizontal green (H.G) variable resistors (VRs) and make adjustments according to the following steps:

(Adjustment procedure)

- 1.  $[BOW] \rightarrow [SKEW] \rightarrow [CENT (center position)]$
- 2. [PIN (pin warp)]  $\rightarrow$  [SUB BOW]  $\rightarrow$  [BOW]
- 3.  $[KEYS (trapezoid)] \rightarrow [SUB SKEW] \rightarrow [SKEW]$
- 4. [M.WAVE (middle sine wave warp)] →
   [WAVE-A (upper and lower sine wave warp)] →
   [WAVE-U (upper sine wave warp)]
  - ※ For vertical (V) only.
- 5. [V-M.PIN (vertical middle pin warp)] → [V/WING (vertical wing warp)]
  - \* For vertical (V) only.
- 6. [H-M.PIN (horizontal middle pin warp)]
  - \* For horizontal (H) only.

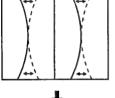
(Dot motion)



RV932 H.G BOW (horizontal green bow)

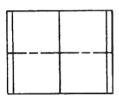


RV941 H.G PIN
(horizontal green pin warp)



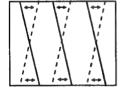


RV950 H.G SUB BOW (horizontal green sub bow)



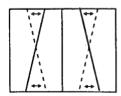
V.G BOW ......RV935 V.G PIN ......RV938

V.G SUB BOW·····RV953



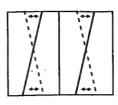


RV920 H.G SKEW (horizontal green skew)



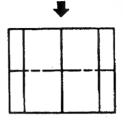


RV925 H.G KEYS (horizontal green trapezoid)



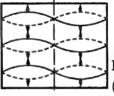


RV944 H.G SUB SKEW (horizontal green sub skew)



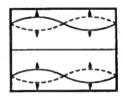
V.G SKEW.....RV923 V.G KEYS.....RV929

V.G SUB SKEW·····RV947





RV962 V-M-WAVE (vertical middle sine wave warp)

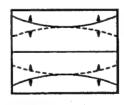




RV975 V-WAVE-A (vertical upper and lower sine wave warp)



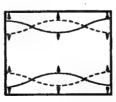
RV978 V-WAVE-U (vertical upper sine wave warp)





RV980 V-M. PIN (vertical middle pin warp) \*\* Common in red, green,

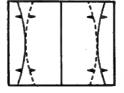
and blue





RV957 V/WING
(wing warp)

Common in red, green, and blue





RV956 H/M. PIN (horizontal middle pin warp)

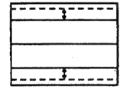
## 3-7. GREEN AND RED REGISTRATION ADJUSTMENTS

- 1. Input cross hatch signal.
- Enter service mode. Select B OFF of SERVICE MODE to cut off blue output.
- 3. Turn the vertical red (V.R) and horizontal red (H.R) variable resistors (VRs) to adjust red picture convergence in relation to green picture according to the following steps:

#### (Adjustment procedure)

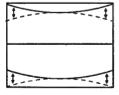
- [LIN (linearity)] → [SIZE (amplitude)] →
   [CENT (center position)]
- 2.  $[BOW] \rightarrow [SKEW] \rightarrow [CENT (center position)]$
- [PIN (pin warp)] → [SUB BOW] → [BOW]
   [H/M. PIN (horizontal middle pin warp)]
- 4. [KEYS (trapezoid)] → [SUB SKEW] → [SKEW]
- [M.WAVE (middle sine wave warp)] →
   [WAVE-A (upper and lower sine wave warp)] →
   [WAVE-U (upper sine wave warp)]

#### (Dot motion)



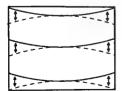


RV912 V.B SIZE (vertical red amplitude)



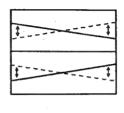


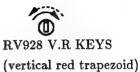
RV952 V.R SUB BOW (vertical red sub bow)

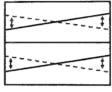




RV943 V.R BOW (vertical red bow)

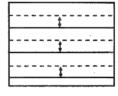






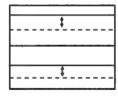


RV946 V.R SUB SKEW (vertical red sub skew)



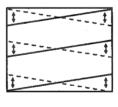


RV904 V.R CENT (vertical red center position)





RV917 V.R LIN (vertical red linearity)





(vertical red skew)

H.R LIN·····	····RV915
H.R SIZE·····	·····RV907
H.R CENT·····	·····RV901
H.R BOW·····	·····RV931
H.R SKEW·····	·····RV919
H.R PIN·····	····RV940
H.R KEYS·····	····RV926
H.R SUB BOW······	·····RV949
H.R SUB SKEW·····	
V-M-WAVE·····	·····RV973
V-WAVE-A·····	·····RV976
V-WAVE-U······	·····RV979
V-M.PIN·····	·····RV980

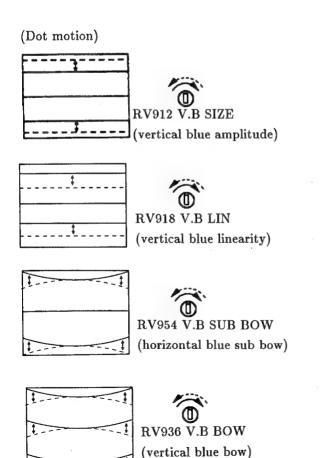
V/WING.....RV957 H/M.PIN.....RV956

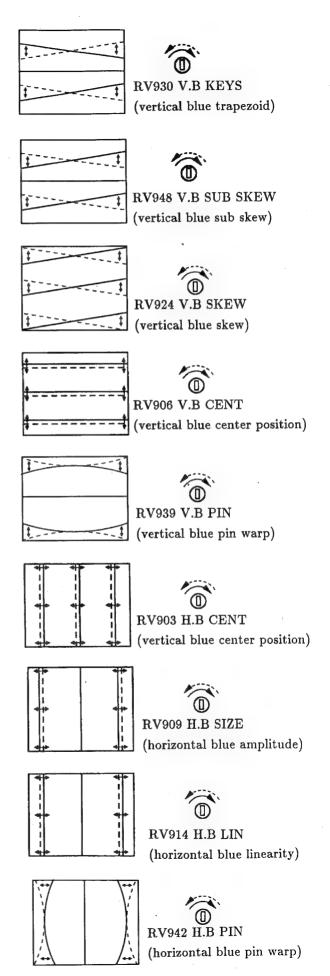
## 3-8. GREEN AND BLUE REGISTRATION ADJUSTMENTS

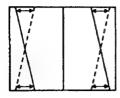
- 1. Input cross hatch signal.
- 2. Enter service mode. Select R OFF of SERVICE MODE to cut off red output.
- 3. Turn the vertical blue (V.B) and horizontal blue (H.B) variable resistors (VRs) to adjust blue picture convergence in relation to green picture according to the following steps:

(Adjustment procedure)

- [LIN (linearity)] → [SIZE (amplitude)] →
   [CENT (center position)] →
- 2.  $[BOW] \rightarrow [SKEW] \rightarrow [CENT (center position)]$
- 3. [PIN (pin warp)] → [SUB BOW] → [BOW] [H/M. PIN (horizontal middle pin warp)]
- 4. [KEYS (trapezoid)] → [SUB SKEW] → [SKEW]
- [M.WAVE (middle sine wave warp)] →
   [WAVE-A (upper and lower sine wave warp)] →
   [WAVE-U (upper sine wave warp)] →

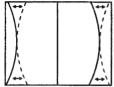






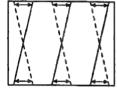


RV954 H.B SUB SKEW (horizontal blue sub skew)

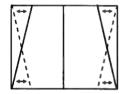




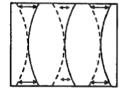
RV951 H.B SUB BOW (horizontal blue sub bow)





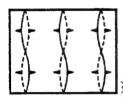






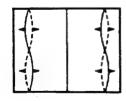


RV933 H.B BOW (horizontal blue bow)





RV981 Common in red, green, and blue





RV982 \*\* Common in red, green, and blue

H/M PIN·····	······RV958
$\mathbf{M.WAVE}{\cdots}$	·····RV961
WAVE-A·····	·····RV974
WAVE-U·····	·····RV977

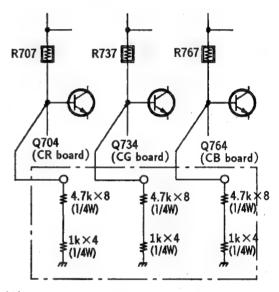
#### 3-9. REGISTRATION CHECK

- 1. Out put red, blue, and green.
- 2. Out put cross hatch and monoscope signals to check registration. Also check focus.

#### 3-10. WHITE BALANCE ADJUSTMENTS

#### 1) Screen adjustment

- 1. Input white signal.
- 2. Remove connectors CR-15, CG-16, and CB-17.
- 3. Fit jigs between the ground and R707, R737, and R767.



\* Resistors in each jig are connected serial.

- 4. Turn the RGB (red, green, and blue) screen variable resistors in the focus block to make the flyback line faint. Stop before the line completely disappears.
- 5. Insert connectors CR-15, CG-16, and CB-17.

## 2) White balance adjustments (SBRT, GAMP, BAMP, GCUT, BCUT)

- 1. Input monoscope signal and enter service mode.
- 2. Select the picture quality adjustment from the menu and set PICTURE minimum.
- Use the commander to adjust SBRT so that 10 IRE of the monoscope pattern becomes faintly luminous.
- 4. Input white signal.
- 5. Set PICTURE minimum. Adjust item GCUT and BCUT to obtain an optimum white balance.
- 6. Set PICTURE maximum. Adjust GAMP and BAMP to obtain an optimum white balance.
- 7. Repeat white balance adjustment alternating PICTURE setting at the minimum and maximum.

MEMO	

#### **SECTION 4**

#### SAFETY RELATED ADJUSTMENTS

#### 4-1. SAFETY RELATED ADJUSTMENTS

When replacing the following components, make the HV REGULATOR adjustments (on the N board)

William
<

When replacing the following components, make the HV HOLD DOWN adjustments (on the N board)

William
<

When replacing the following components, make the BEAM CURRENT PROTECTOR adjustments (on the N board)

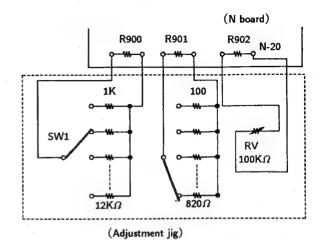
- IC802, Q805, Q807, D811, D812,C810,
  C824, C825, C826, C827, C831,
  R810, R843, R844, R847, R848, R849,
  R850, R851, R852, R853, R854, R881
  - ② IC804, Q804, Q808, D808, D809, C809, C828,C829, C830, C831, R807, R839, R840, R841,R847, R848, R849, R850, R851, R852, R855, R856, R857, R881

When replacing the following components, make the OVP CIRCUIT adjustments (on the G board)

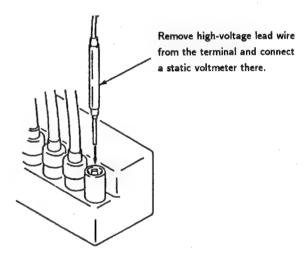
- .....Q618, Q621, D628, C634, R639, R649, R652, R655, R656
- Checking with static voltmeter —

#### HV HOLD DOWN ADJUSTMENTS (MR900, R901)

- 1. Verify that the power switch is off.
- Connect the HV hold down adjustment resistance jig to the N20 connector on the N board.



- 3. Connect an external variable resistor (RV) to R 902 of the N board.
- 4. Remove the cap off from the unused terminal of the high voltage block. Connect a static voltmeter to the terminal.



- Receive 120 VAC power voltage and monoscope pattern signal. Maximize PICTURE and BRIGHTNESS.
- 6. Use the external variable resistor of the hold down adjustment jig to make the static voltmeter to read  $33.50 \pm 0.50 \text{kVDC}$ .
- 7. Raise resistances with the jig until the HV hold down circuit is activated. Read the figures then, and mount resistance of the measured figures to R900 and R901.

R900: Must be  $1k\Omega$  to  $12k\Omega$ 

R901: Must be Jw  $100\Omega$  to  $820\Omega$ 

8. Turn on power again. Vary external variable resistance and confirm that the HV hold down circuit is activated at the reated value,  $33.50\pm0.50$ kV.

Checking without static voltmeter —

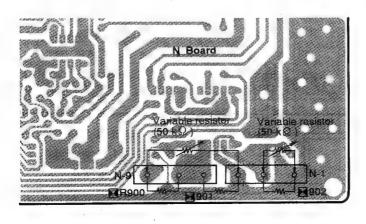
#### HV HOLD DOWN ADJUSTMENT (☐R900, ☐R901)

- 1. Receive all-white signal. Maximize PICTURE and BRIGHTNESS.
- 2. Remove R902 from the N board. Connect a variable resistor of  $50k\Omega$  on each end, and minimize the resistance.
- 3. Remove R900 and R901 from the N board. Connect a variable resistor of  $50k\Omega$  on each end, and minimize the resistance.
- 4. Connect a digital voltmeter between the D801 cathode and chassis ground of the N board.
- 5. Turn on the power switch. Adjust the variable resistors connected to the R902 of the N board to make the digital multimeter to read 145.0VDC.
- Adjust the variable resistors connected to R900 and R901 on the N board so as to activate the HV hold down circuit and turn off the display.
- 7. Read the variable resistors connected to R900 and R901 and mount fixed resistors of measured resistance to the terminals.

Note: Select fixed resistance from the following ranges.

R900:  $1k\Omega$  to  $12k\Omega$ R901: Jw  $100\Omega$  to  $820\Omega$ 

- 8. Maximize resistance of the variable resistor connected to R902 of the N board and turn on power.
- 9. Vary variable resistance at R902. Confirm that the HV hold down circuit is activated and the display is turned off when voltage reads  $134 \pm 1.0$ V.

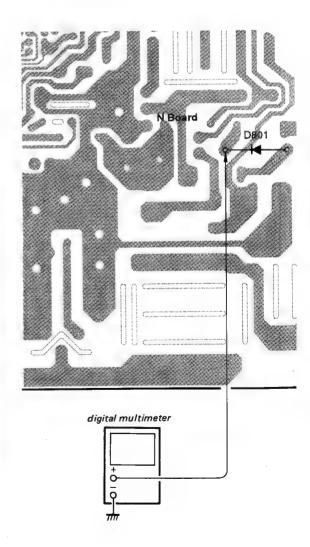


#### HV REGULATOR ADJUSTMENT (■R902)

- 1. Receive all-white signal. Maximize PICTURE at BRIGHTNESS.
- Connect a variable resistor of 50kΩ on each end R902 of the N board. Maximize resistance.
- 3. Connect a digital voltmeter between the D8 cathode and the chassis of the N board.
- 4. Turn on power. Adjust the variable resistor so th the digital multimeter reads 135.0V±1.0V.
- 5. Read the variable resistance then.
- 6. Mount a fixed resistor of the measured resistance R902.

Note: R902: Must be  $2.2k\Omega$  to  $27k\Omega$ 

7. Turn on power again. Confirm that the digit multimeter reads  $135.0V \pm 1.0V$ .



## SECTION 5 CIRCUIT ADJUSTMENTS

## 5-1. ELECTRICAL ADJUSTMENT BY REMOTE COMMANDER

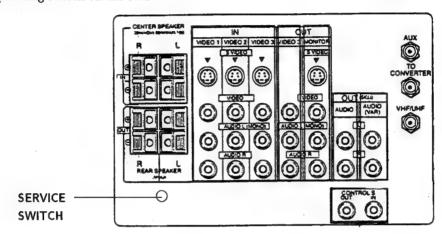
Use of Remote Commander (RM-Y114A) can be performed circuit adjustments about this model.

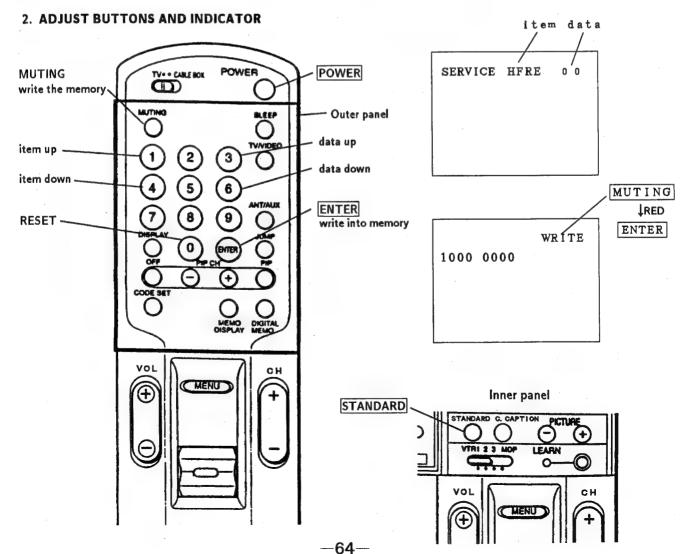
#### 1. METHOD OF SETTING THE SERVICE MODE

1) Press POWER button on the Remote Commander while pressing switch on the rear of the set.

NOTE: Test Equipment Required.

- 1. Pattern Generator
- 2. Frequency counter
- 3. Digital multimeter
- 4. Audio OSC





#### 3. AN ITEM OF ADJUSTMENT

ITEM	REFERENCE	NA	ME REGIST
AFC	DATA	VP	AFC 1 O
AFC	0	* *	AFC 1.0
HFRE	74	VP	H. FREQUENCE
VFRE	16	VP	V. FREQUENCE
HPOS	5	VP	H. PHASE
GAMP	25	VP	GREEN AMP.
BAMP	26	VP	BLUE AMP.
GCUT	9	VP	GREEN CUT OFF.
BCUT		VP	BLUE CUT OFF
SPIX	40	VP	PICTURE
SHUE	29	VP	HUE
SCOL	28	VP	COLOR
SBRT	11	VP	BRIGHT
RGBP	21	VP	RGB PICTURE
SHAR	13		SHARPNESS
DISP	21		OUTPUT
VSMO	0	VP	VSMO .
REF	1	VP	REF 1.0
ROFF	1	VP	OFF NR
GOFF	1	VP	OFF NG
BOFF	1	VP	OFF NB
ABLM	1	VP	ABLM
DRGB	0	VP	D RGB
TEST	0	AP	T
MPX	7	AP	ATT
FILO	31	AP	11
DEEM	7	AP	12
STEV	31	AP	OSC 1
SAPV	31	AP	OSC 2
PILO	7 .	AP	PILOT
SEP	31	AP	WIDE BAND
VD	7	AP	SPECTRAL
LVOL	0	AP	VOLUME-L
RVOL	0	AP	VOLUME-R
BASS	10	AP	BASS
TRE	8	AP	TREBLE
PHPO	32	PI	READ DELAY H
PVPO	8	PI	READ DELAY V
PLEV	6	PI	PICTURE LEVEL
PFCO	7	PI	FRAME COLOR
NRLE	31	1	NR LEVEL
DSPP	43		
SHAD	1	PJ	SHADON
VMSW	1	PJ	RS HAD
SCUT	16	PJ	SHAD CUT OFF
SCUT	16	PJ	SHAD CUT OFF

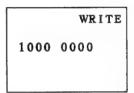
## 4. METHOD OF CANCELLATION FROM SERVICE MODE

Set the standby condition (Press POWER button on the commander) in the next place, press POWER button again, hereupon it becomes TV mode.

#### 5. METHOD OF WRITE FOR MEMORY

- 1) Set to Service Mode.
- 2) Press 1 (UP) and 4 (DOWN), select an item of adjustments.
- 3) Press MUTING button indicate WRITE (RED) on screen.
- 4) Press ENTER button to write for memory.

#### 6. MEMORY WRITE CONFIRMATION METHOD



- 1) After adjustment, pull out the plug from AC outlet, and next place, plug in AC outlet again.
- 2) Turn the power switch ON and set to Service Mode.
- 3) Call the adjusted items again, confirm they were adjusted.

#### 5-2. A BOARD ADJUSTMENTS

#### RF AGC ADJUSTMENT(IF BLOCK VR)

- 1) Input a color-bar signal.
- 2) Adjust AGC VR of TU 101 so that snow noise and cross-modulation disappear from the picture.
- 3) Confirm them at every channel.

### H.FREQUENCY ADJUSTMENT (HFRE)

- 1) Set to Service Mode.
- 2) Input a color-bar signal.
- 3) Connect a frequency counter to pin<sup>3</sup> of A-10 connector.
- 4) Call the item of AFC, set to 3 level (free run).
- 5) Select HFRE with 1 and 4.
- 6) Adjust 3 and 6 to the  $15735 \pm 60$  Hz level.
- 7) Call the item of AFC again, adjust the level" 01".
- 8) Write into the memory by pressing  $\boxed{\text{MUTING}} \rightarrow \text{then } \boxed{\text{ENTER}}$ .

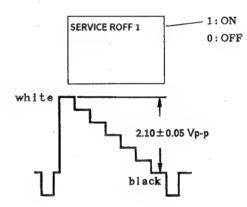
#### V.FREQUENCY ADJUSTMENT (VFRE)

- 1) Set the Service Mode.
- 2) Input an off-air signal (VIDEO IN → no signal).
- 3) Connect the frequency counter across connector (3)pin of E 1-1 connector and ground.
- 4) Select VFRE with 1 and 4.
- 5) Adjust 3 and 6 to the 56  $\pm 0.5$  Hz.
- 6) Write the memory by pressing MUTING → then ENTER.

#### SUB CONTRAST ADJUSTMENT (SPIX)

- 1) Set to Service Mode.
- 2) Input a color-bar signal. (75 IRE)
- 3) Set the conditions as follows.

PICTURE	MAX
COLOR	MIN
BRIGHTNESS	MIN
TRINITONE	······ LOW
ROFF	ON
G OFF	OFF
BOFF	OFF

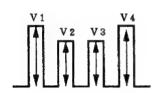


- 4) Connect an oscilloscope to <a>®pin of E1-1</a> connector on A board and ground.
- 5) Adjust 3 and 6 to the  $2.10 \pm 0.05$ Vp-p level by selecting SPIX with 1 and 4.
- 6) Write the memory by pressing  $\overline{\text{MUTING}} \rightarrow \text{then}$   $\overline{\text{ENTER}}$ .
- Return the following back to normal after adjustment.

G OFF	ON
B OFF	ON
COLOR	······ CENTER
BRIGHTNESS	······ CENTER
TRINITONE	······ HIGH
PICTURE	200%

#### SUB HUE, SUB COLOR ADJUSTMENT (SHUE, SCOL)

- 1) Input a color-bar signal.
- 2) Press STANDARD to normal.
- 3) Set to Service Mode.
- 4) Connect an oscilloscope to pin of E1-1 connector on A board and ground.
- 5) Adjust 3 and 4 to the V1=V4 and V2=V3 by select to SHUE and SCOL with 1 and 4. Lower the data 4 steps from this point.

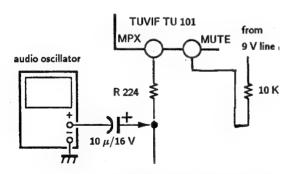


6) Write into the memory by pressing MUTING →then ST VCO ADJUSTMENT (MPX, STEV) ENTER .

#### FILTER ADJUSTMENT (MPX, FILO)

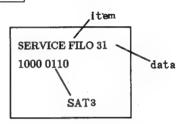
- 1) Set to Service Mode.
- 2) Select to TEST with 1 and 4, set the data to "1". Then select MPX and change data to "8".
- 3) Connect an audio oscillator to R224 using a capacitor ( $10\mu \text{ F}/16\text{V}$ ), set frequency to 62.936  $kHz\pm0.1 kHz$ .

And then, through the  $10k\Omega$  resistor, feed 9.0Vinto the mute of TUVIF TU 101.

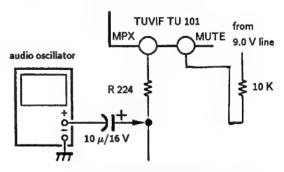


V 4 fh: SINE-WAVE 62.936 KHz ± 0.1 KHz LEVEL 3.0 Vp-p

- 4) Make the data "00" by selecting FILO with 1 and 4 And then, send up the data gradually by pressing 6. Set the data to D1 before SAT3 changing to 1 from 0.
- 5) Send up the data gradually. Set data D2 when SAT3 changes 0 from 1.
- 6) Adjust the data of FILO to  $\frac{D1+D2}{2}$ .
- 7) Write into the memory by pressing MUTING  $\rightarrow$ then ENTER .

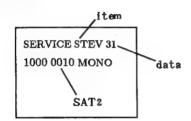


- 1) Set to Service Mode.
- 2) Select TEST with 1 and 4, set the data to "1". And then press MTS to MONO.
- 3) Select MPX, set the data "8".
- 4) Connect an audio oscillator to R 224 using electrolytic capacitor  $(10\mu \text{ F}/16\text{V})$  and appply the frequency Vst. Then, apply DC voltage to mute of TUVIF TU 101 using  $10k\Omega$  connect to 9.0 V line.



Vfh: SINE-WAVE 15.734 KHz ± 0.1 KHz LEVEL 0.28 Vp-p

- 5) Select STEV with 1 and 4, set the data to "00" with 6. And then, send up the data gradually. Set the data to D1 before SAT2 changes from 0 to 1.
- 6) Send up data gradually, set the data to D2 when SAT2 changes 1 from 0.
- 7) Adjust the data of STEV to (D 1+D 2)/2.
- 8) Write into the memory by pressing MUTING → then ENTER.



### MPX IN LEVEL ADJUSTMENT (MPX)

- 1) Set to Service Mode.
- 2) Select TEST with 1 and 4, set the data to "0" with 6. And then press MTS to MONO.
- 3) Select MPX with 1 and 4, set the data to "8" with 3 and 6.
- 4) Write into the memory by pressing MUTING → then ENTER .

## PILOT CANCEL ADJUSTMENT (PILO)

- 1) Set to the Service Mode.
- 2) Select PILO with 1 and 4, set the data to "8" with 3 and 6.
- 3) Write into the memory by pressing MUTING

  → then ENTER.

## SAP VCO f ADJUSTMENT (SAPV)

- 1) Set to Service Mode.
- 2) Input a stereo broadcast signal with SAP.
- 3) Select TEST with 1 and 4, set the data to "0".

  And then, press MTS to MAIN.
- 4) Connect a digital multimeter to TP-1(DBX). This voltage reading will equal V 1.
- 5) Press MTS to SAP and this voltage will equal V 2.
- 6) Select SAPV with 1 and 4, adjust 3 and 6 so that V 2=V 1±0.03 VDC.
- 7) Write the memory by  $\boxed{\text{MUTING}} \rightarrow \boxed{\text{ENTER}}$ .

### SEPARATION ADJUSTMENT (SEP)

- 1) Set to Service Mode.
- Press MTS to MAIN and receive a monoral broad -cast signal.

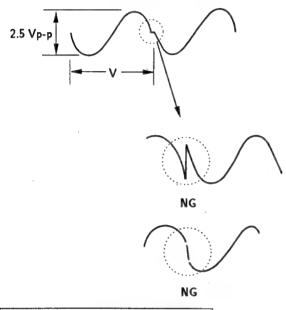
In the next step, receive a stereo broadcast signal.

3) Select SEP and VD with and 4, adjust and 6 so that a clear stereo sound is effected.

### 5-3. DS BOARD ADJUSTMENTS

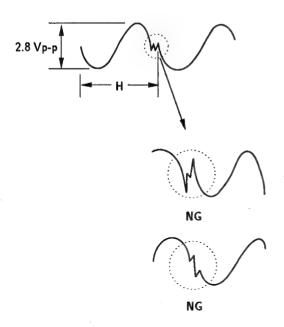
#### V. 3 WAVE ADJUSTMENT (RV983)

- 1) Input a color-bar signal.
- 2) Connect an oscilloscope IC1712 Pin of DS board ground.
- 3) Adjust RV983 as shown the following figure.

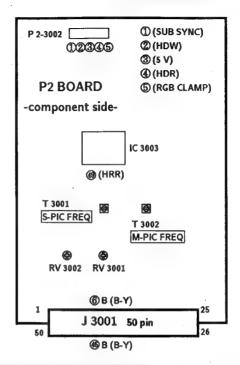


#### H. 3 WAVE ADJUSTMENT (RV984)

- 1) Input a color-bar signal.
- 2) Connect an oscilloscope IC1712 Pin① of DS board ground.
- 3) Adjust RV984 as shown the following figure.



#### 5-4. P2 BOARD ADJUSTMENTS



#### **MAIN-PICTURE FREQUENCY (T 3002)**

- 1) Set PIP mode.
- 2) Connect a frequency counten to Pin 11 (HDW) of J 3001.
- 3) Connect a frequency counten to Pin 49 or 50 (HRR) of IC 3003 or Pin 5 (RGB CLAMP) of P 2-3002.
- 4) Short the circuit between Pin 4 (HDR) of P 2-3002 and Pin 3 (5 V) of P 2-3002.
- 5) Turn T 3002 CLK (P) for the following frequency at Pin (9) or (9) (HRR) of IC 3003 or at Pin 5 (RGB CLAMP) of P 2-3002.

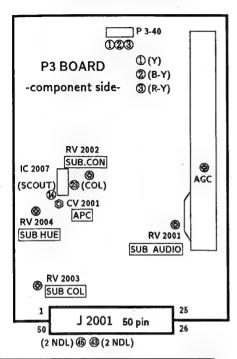
 $15.734 \text{ kHz} \pm 10 \text{ Hz}$ 

### SUB-PICTURE FREQUENCY (T 3001)

- 1) Set PIP mode.
- 2) Connect a frequency counten to Pin 11 (HDW) of J 3001.
- 3) Connect a frequency counten to Pin 49 or 50 (HRR) of IC 3003 or Pin 5 (RGB CLAMP) of P 2-3002.
- 4) Short the circuit between Pin 1 (SUB SYNC) of P 2-3002 and Pin 3 (5 V) of P 2-3002.
- 5) Turn T 3001 CLK (C) for the following frequency at Pin 2 (HDW) of P 2-3002.

 $15.734 \, \mathrm{kHz} \, \pm \, 10 \, \mathrm{Hz}$ 

#### 5-5. P3 BOARD ADJUSTMENTS



### RF AGC ADJUSTMENT(IF BLOCK VR)

- 1) Input a color-bar signal.
- 2) Set to PICTURE IN PICTURE mode.
- 3) Adjust AGC VR of TU 2001 so that snow noise and cross-modulation disappear from the picture.
- 4) Confirm them at every channel.

## SUB PICTURE SOUND VOLUME LEVEL (SUB AUDIO) ADJUSTMENT(RV2001)

- 1) Receine an audio signal of 400 Hz. (100% mod.)
- 2) Adjust RV 2001 for the following level at Pin 43 (2 NDR) or Pin 45 (2 NDL) of J 2001.

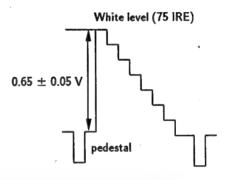
 $500 \text{ mVrms} \pm 2 \text{ dB}$ 

#### SUB CONT ADJUSTMENT (RV2002)

- 1) Obtain the color bar signal on the sub-screen.
- 2) Obsene at Pin 1 (Y OUT) of P3-42 on an oscilloscope.

Odjust RV2002 for the following lenel between the white level and pedestal one.

$$0.65 \pm 0.05 \,\mathrm{Vp-p}$$



#### SUB COLOR ADJUSTMENT(RV 2003)

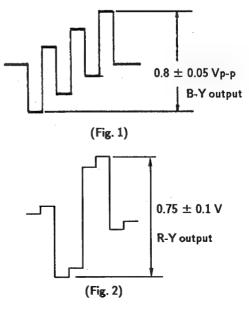
- 1) Obtain the color bar signal on the sub-screen in the mode of PIP size 1/4.
- 2) Reset color.
- 3) Adjust RV 2003 for the following level, obseruing an oscilloscope connected to Pin 2 (B-Y) of P3-40 (Fig. 1)

$$0.8 \pm 0.05 \text{ Vp-p (B-Y)}$$

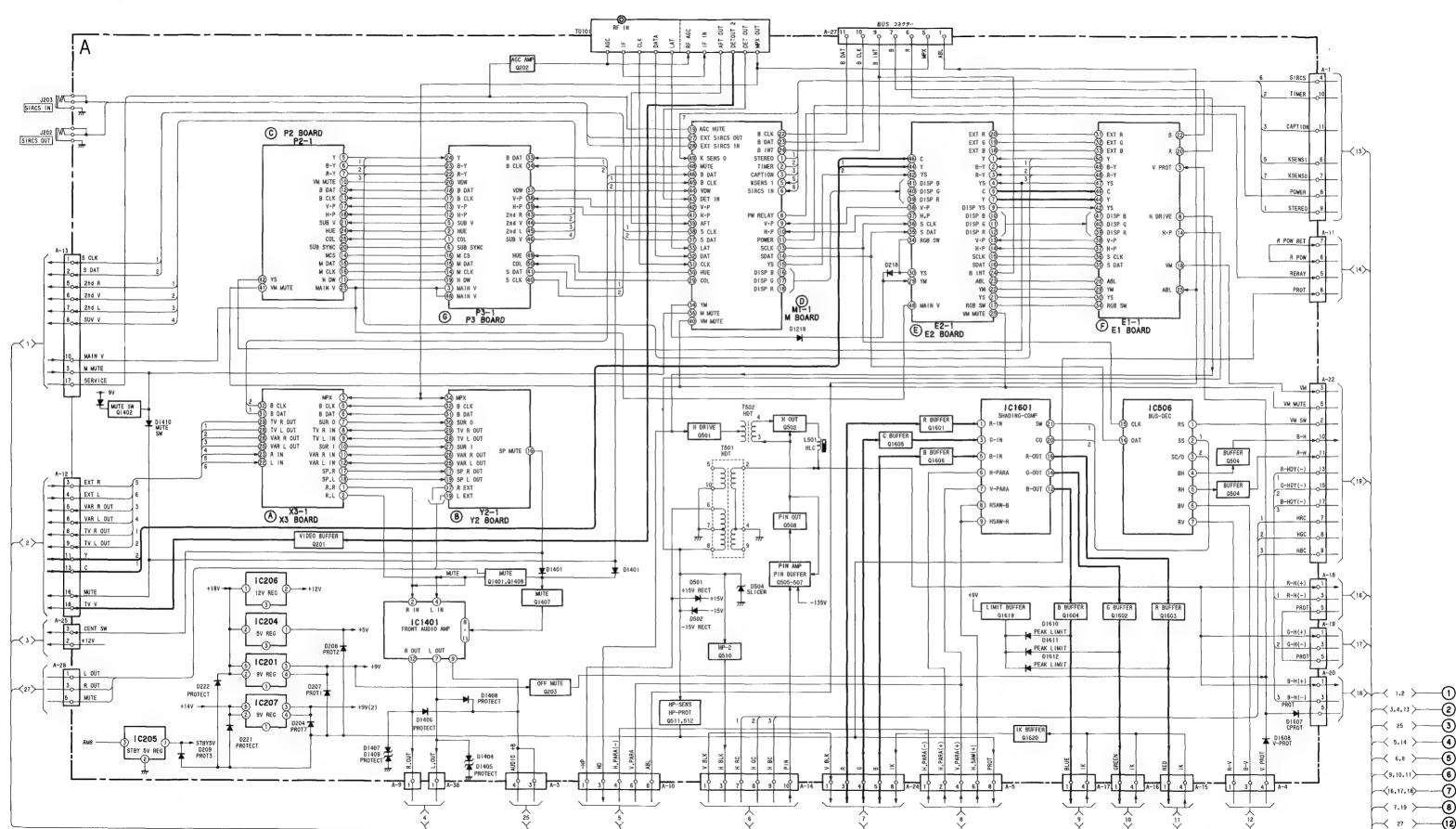
4) Adjust RV 2003 for the following level, observing an oscilloscope connected to Pin 3 (R-Y) of P3-40 (Fig. 2)

$$0.75 \pm 0.1 \text{ Vp-p (R-Y)}$$

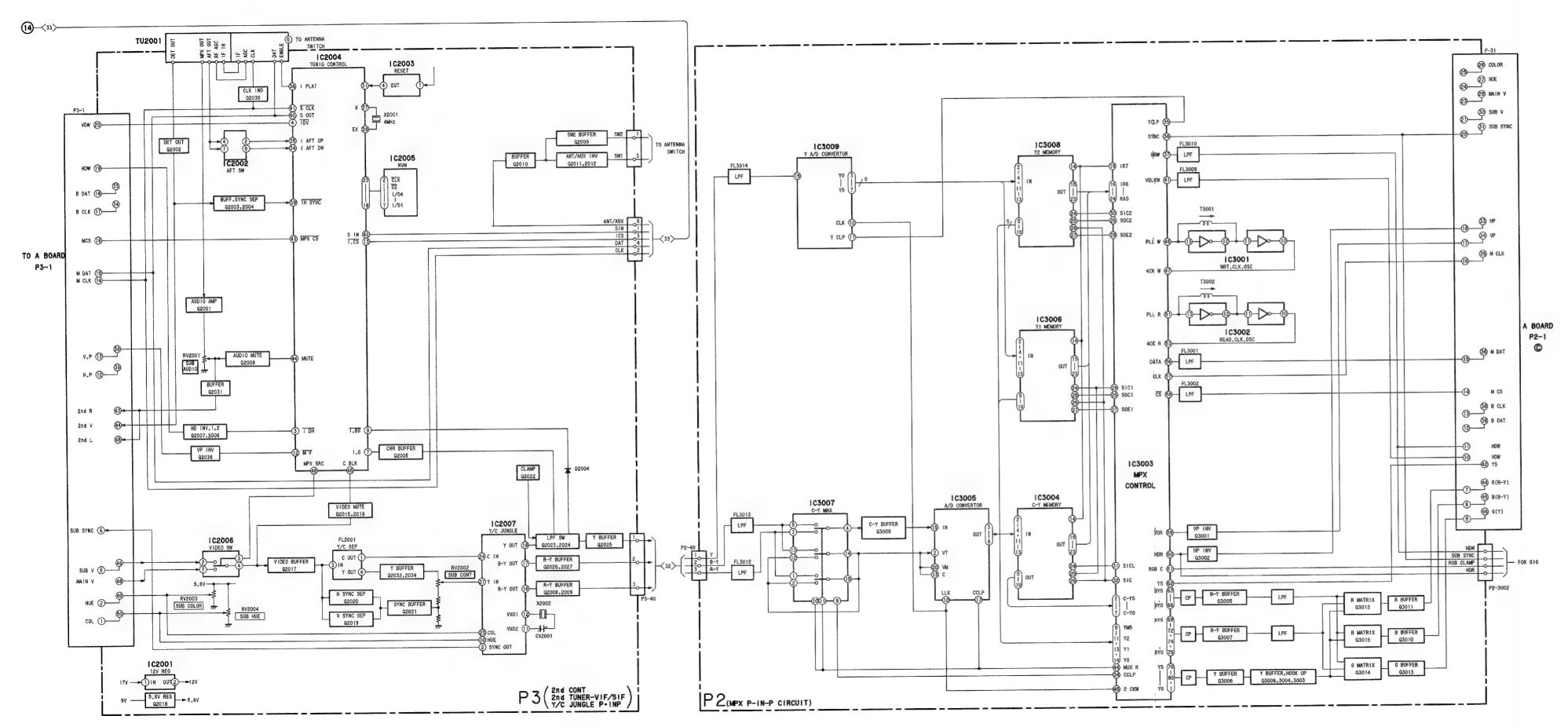
5) Adjust tranking between sub color and sub hue.



#### 6-1. BLOCK DIAGRAMS

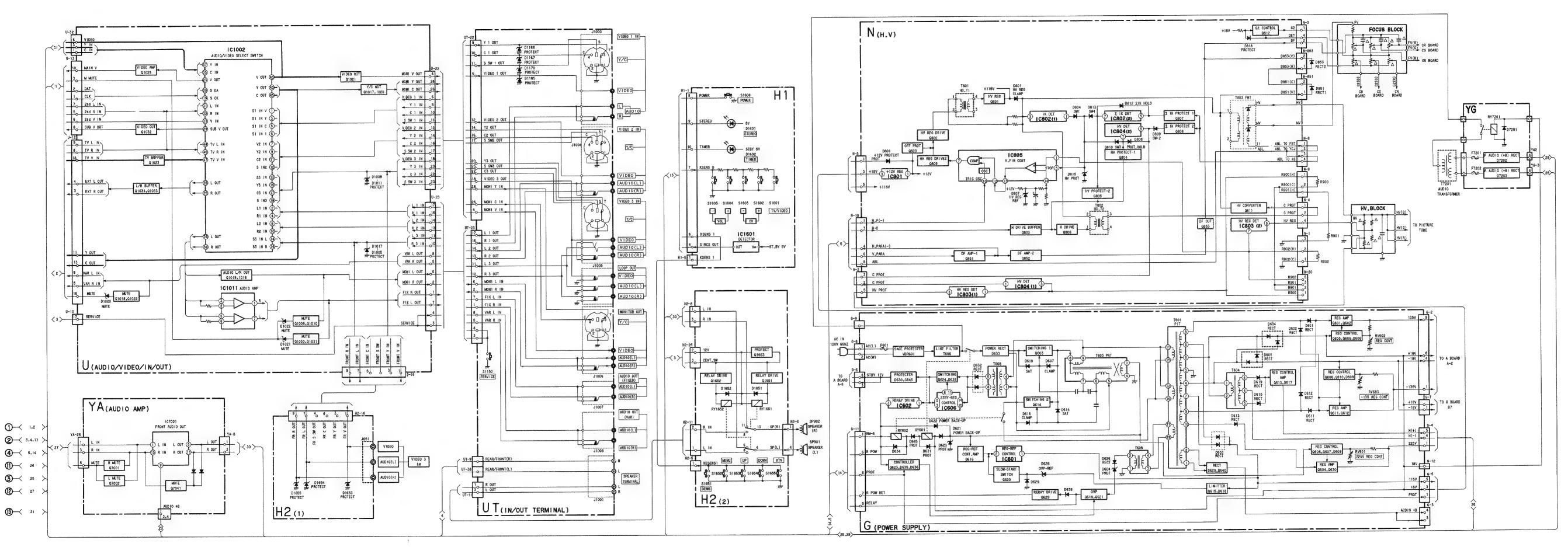


-74-



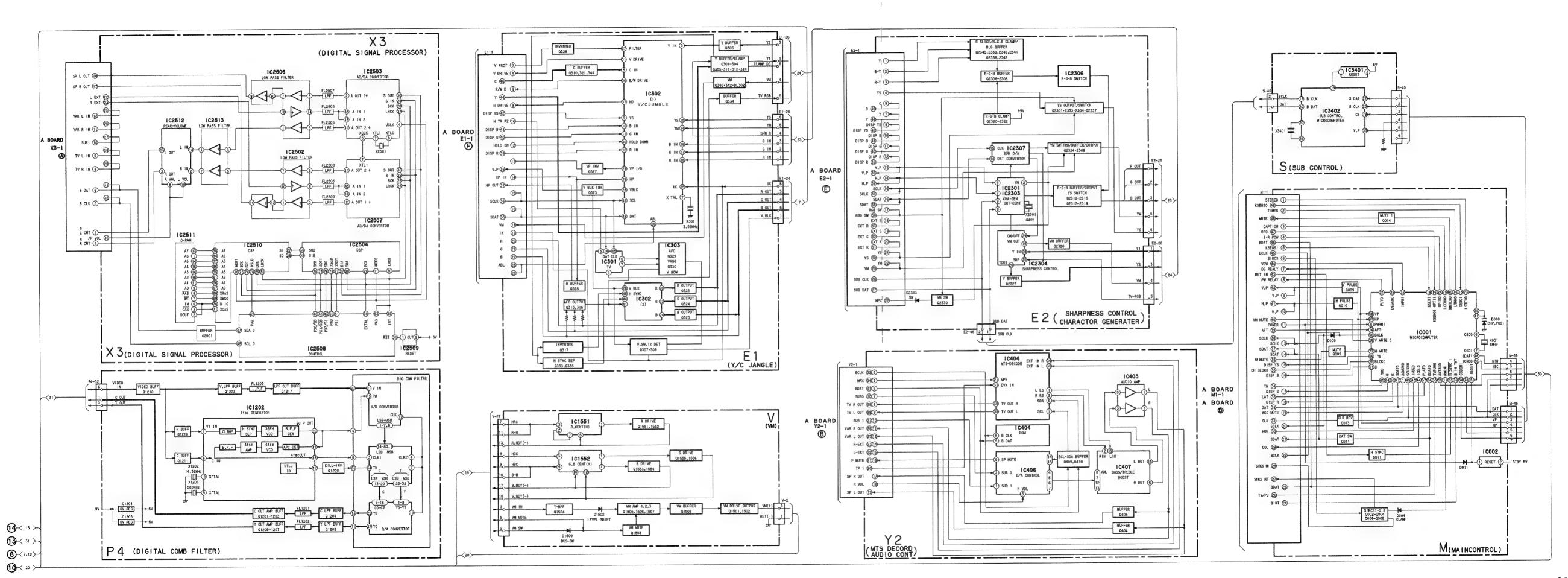
-75-

**-78**-

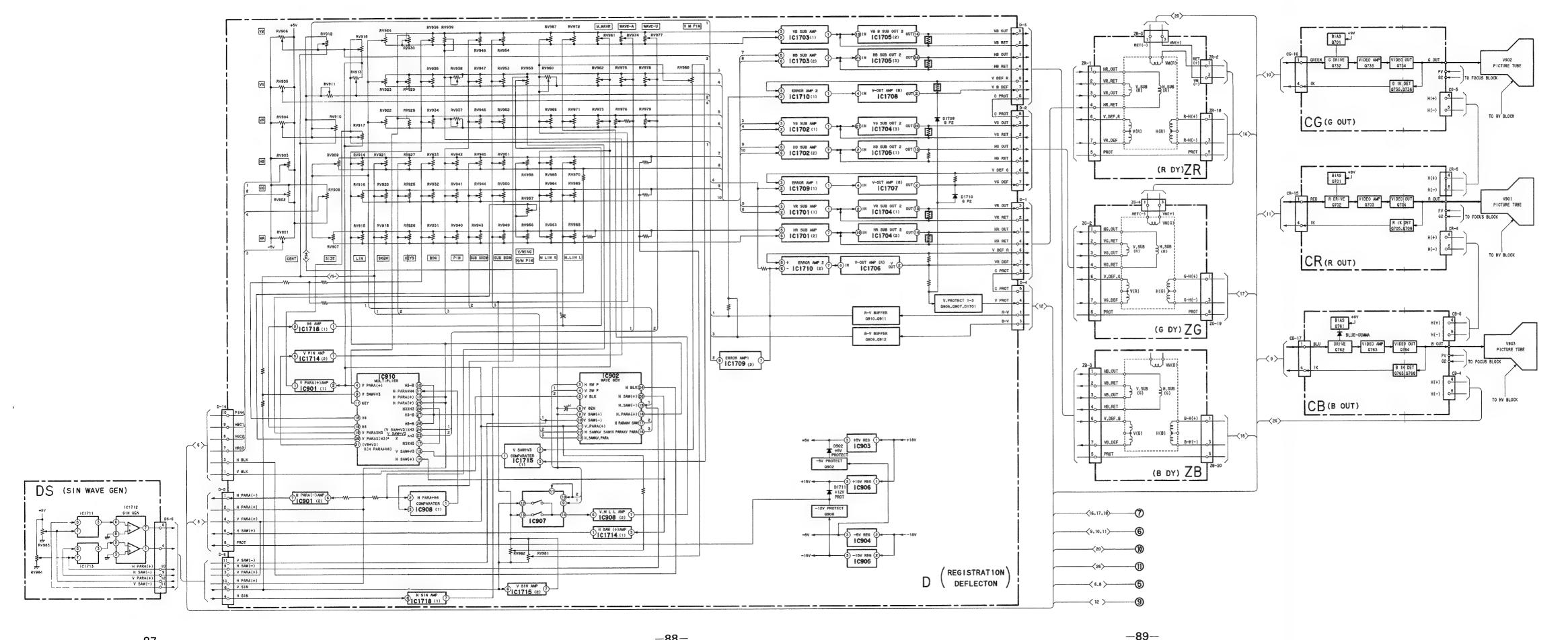


-81-

-79-

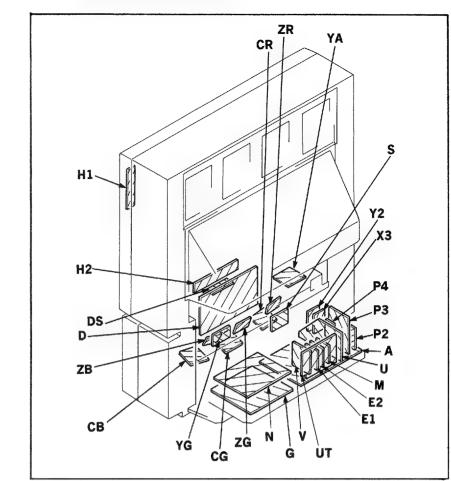


**-83**-



**-87**-

#### 6-3. CIRCUIT BOARDS LOCATION



## 6-4. SCHEMATIC DIAGRAMS AND WIRING BOARDS

- All capacitors are in uF unless otherwise noted. pF:  $\mu\mu$ F 50WV or less are not indicated except for electrolytic and
- · All electrolytics are in 50V unless otherwise specified.
- · All resistors are in ohms.
- $k\Omega = 1000\Omega$ ,  $M\Omega = 1000k\Omega$
- · Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5 mm

Rating electrical power 1/4W

· Chips resistors are 1/10W.

• monflammable resistor. • fusible resistor.

• △: Internal component.

• \_\_\_\_: panel designation, and adjustment for repair.

All vasiable and adjustable resistors have characteristic curve

B, unless otherwise noted.

• <u>1</u>: earth-ground. • #r : earth-chassis.

• The components identified by 🖪 in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should repalacement be

requimed, replace only with the value originally used.

• When replacing components identified by a mark the necessary adjustments indicated. If results do not meet the specified value, change the component identified by H and repeat the adjustment until the specified value is achieved.

(Refer to R652, R852, R900, R901, and R902 adjustment on

When replacing the part in below table, be sure to parform the related adjustment.

Part replaced (☑)	Adjustment (►)
HV Block IC803, IC805, D805, D807, C817, C818, C821, C836, C837, R824, R825, R827, R828, R834, R835, R836, R864, R865, R866, R902	HV Regurater (R902)
HV Block IC803, IC804, Q804, D806, D808, C809, C819, C820, C822, C823, C850, R807, R829, R826, R832, R833, R837, R838, R839, R840, R841, R892, R893, R900, R901	HV Hold down (R900, R901)
Q618, Q621, D628, C634, R639, G R649, R652, R655, R656 Board	OVP (R652)
① IC802, Q805, Q807, D811, D812, C810, C824, C825, C826, C827, C831, R810, R843, R844, R847, R848, R849, R850, R851, R852, R853, R854, R881 ② IC804, Q804, Q808, D808, D809, C809, C828, C829, C830, C831, R807, R839, R840, R841, R847, R848, R849, R850, R851, R852, R855, R856, R857, R881	Beme current protecter ① R852 ② R852

# Reference information

RESISTOR : RN METAL FILM

RC SOLID FPRD NONFLAMMABLE CARBON

FUSE NONFLAMMABLE FUSIBLE NONFLAMMABLE METAL OXIDE

NONFLAMMABLE CEMENT

RW NONFLAMMABLE WIREWOUND

: \* ADJUSTMENT RESISTOR

: LF-8L MICRO INDUCTOR

CAPACITOR : TA TANTALUM

: PS SOYROL

PP POLYPROPYLENE

PT MYLAR : MPS METALIZED POLYESTER

: MPP METALIZED POLYPROPYLENE

: ALB BIPOLAR

: ALT HIGH TEMPERATURE

: ALR HIGH RIPPLE

Readings are taken with a color-bar signal input

• Reading are taken with  $\approx 10~M\Omega$  digital multimeter

Voltage are dc with respect to ground unless otherwise noted

Voltage variations may be noted due to normal production

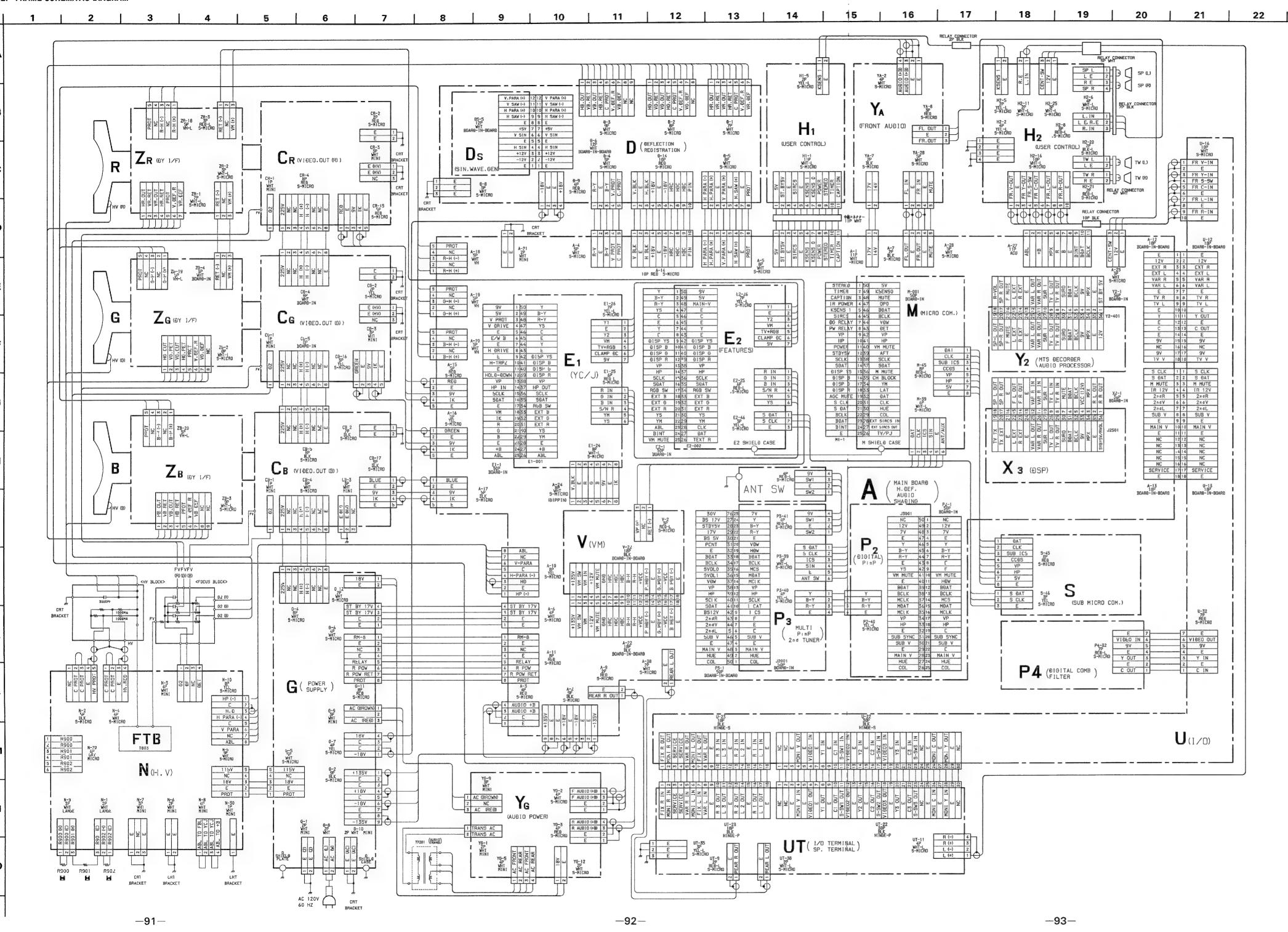
All voltages are in V

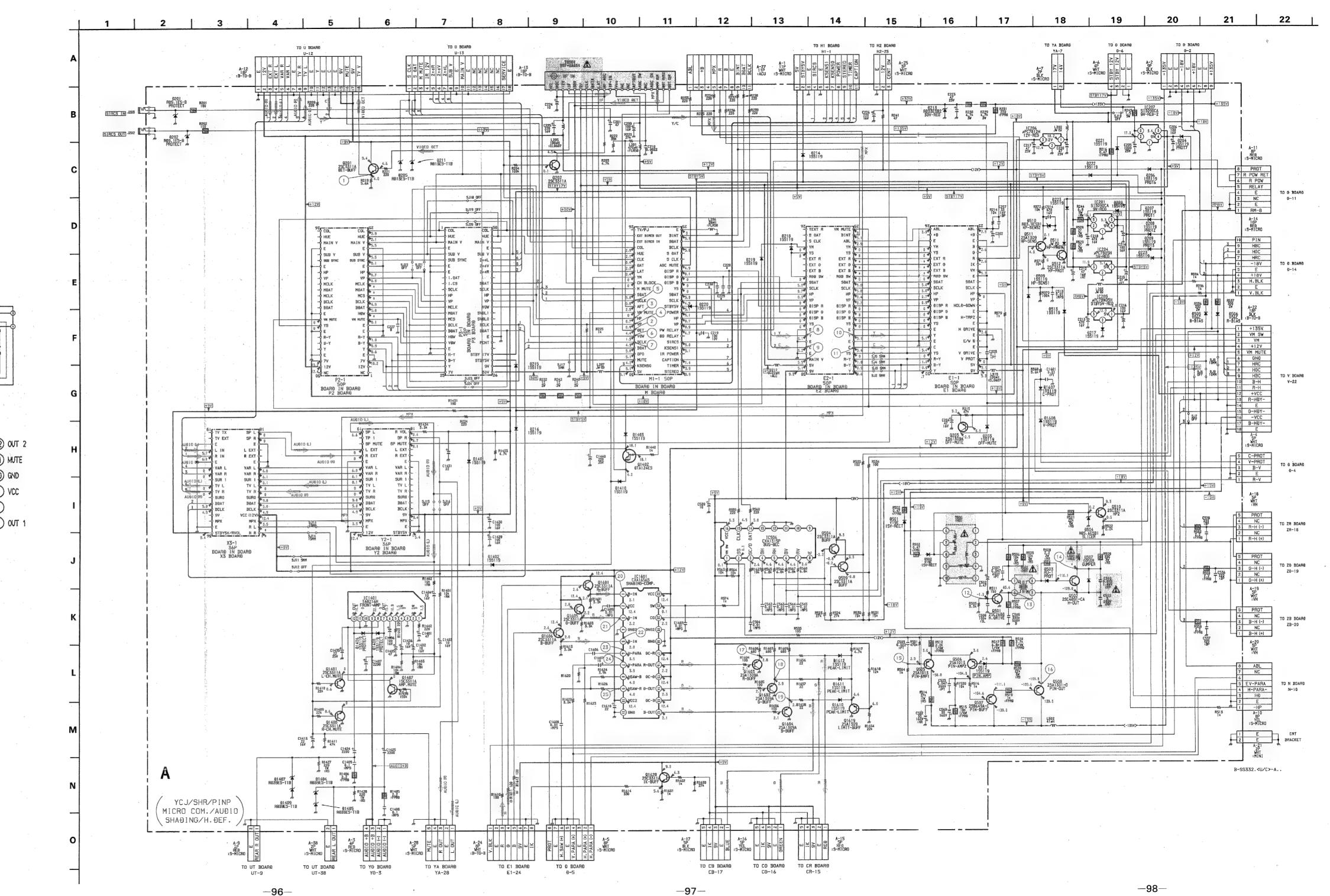
· Circuled numbers are waveform references

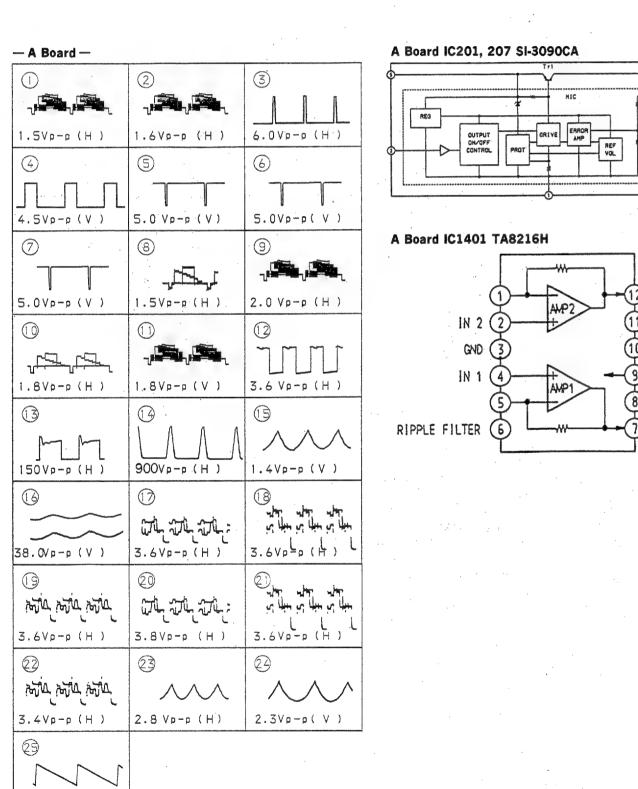
• \_\_\_\_\_ . B+ bus • \_\_\_\_\_ : B- bus

: signal path

Note: The components identified by shading and mark n are critical for safety. Replace only with part number specified.



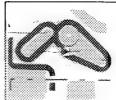




4.4Vp-p (V)

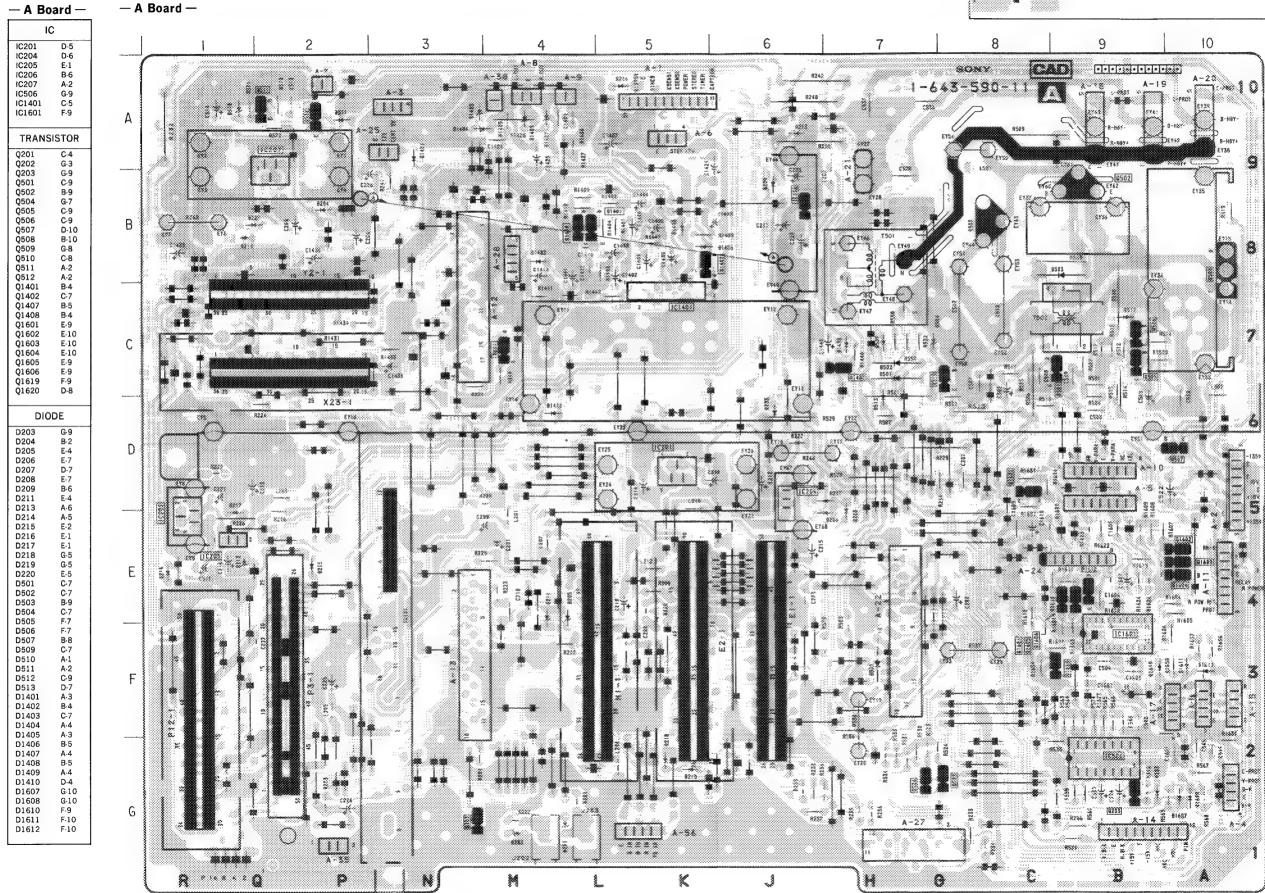
Α

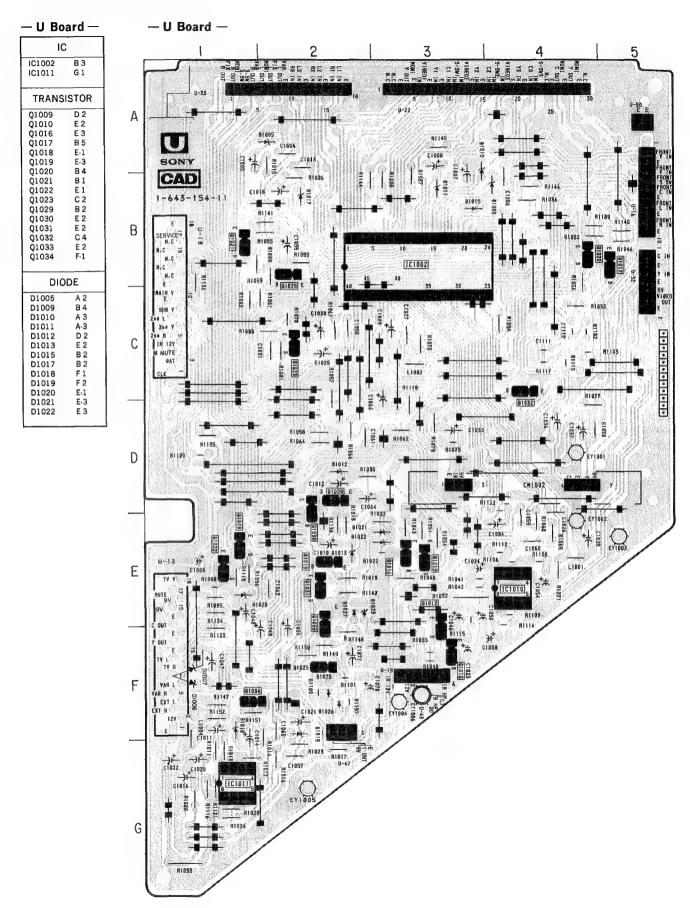
[YCJ/SHR/PINP, MICRO COM/AUDIO, SHADING/H. DEF.]



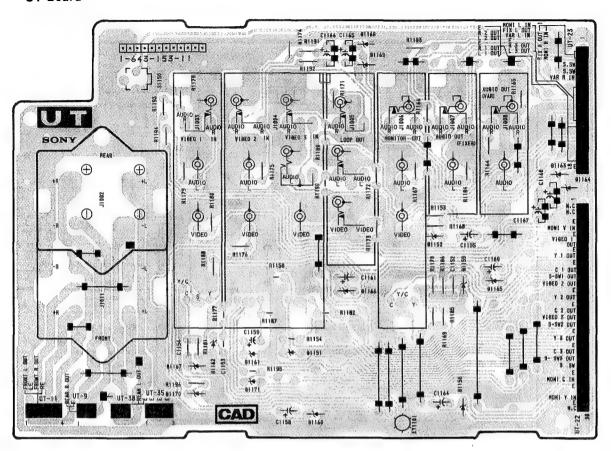
NOTE:

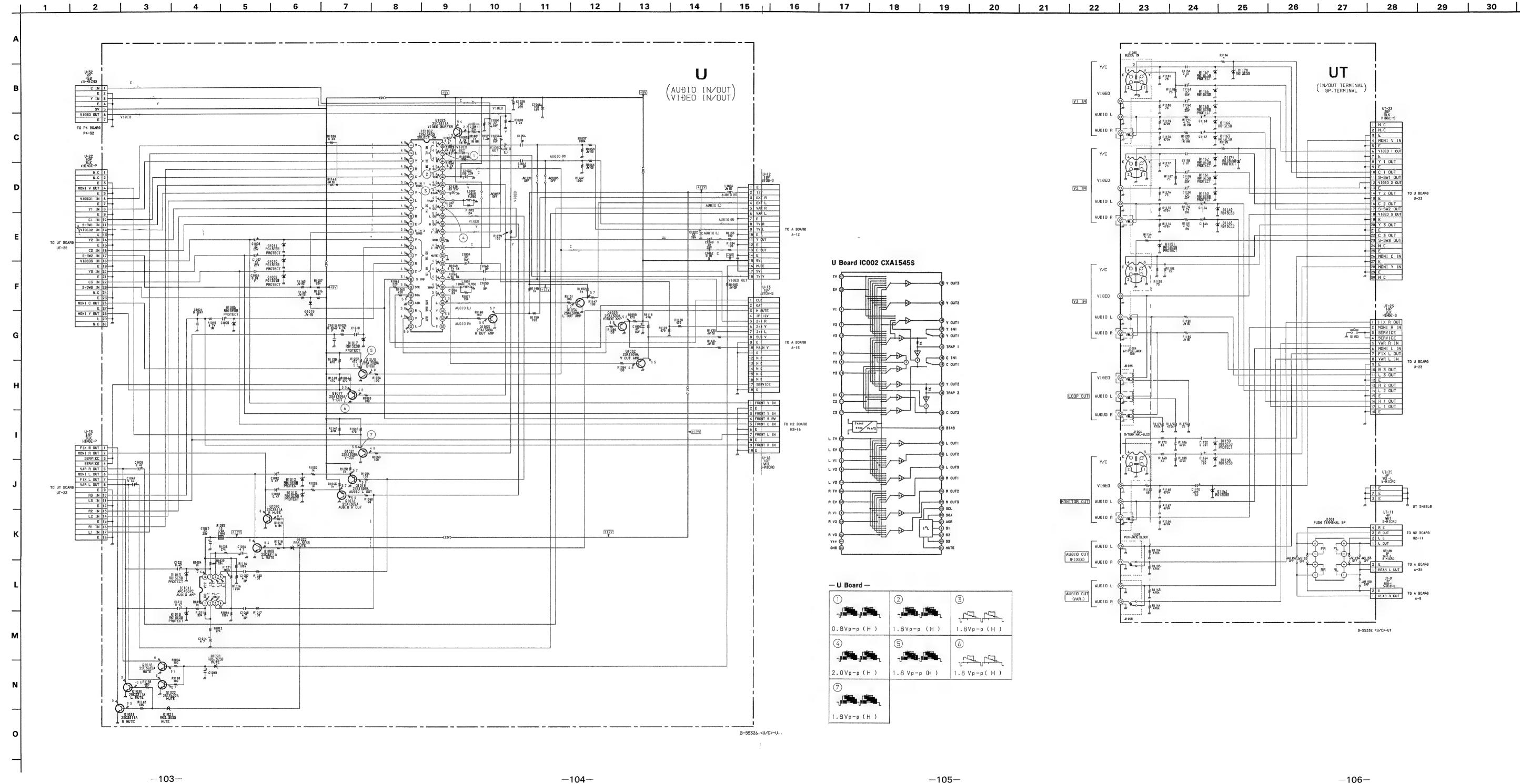
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.





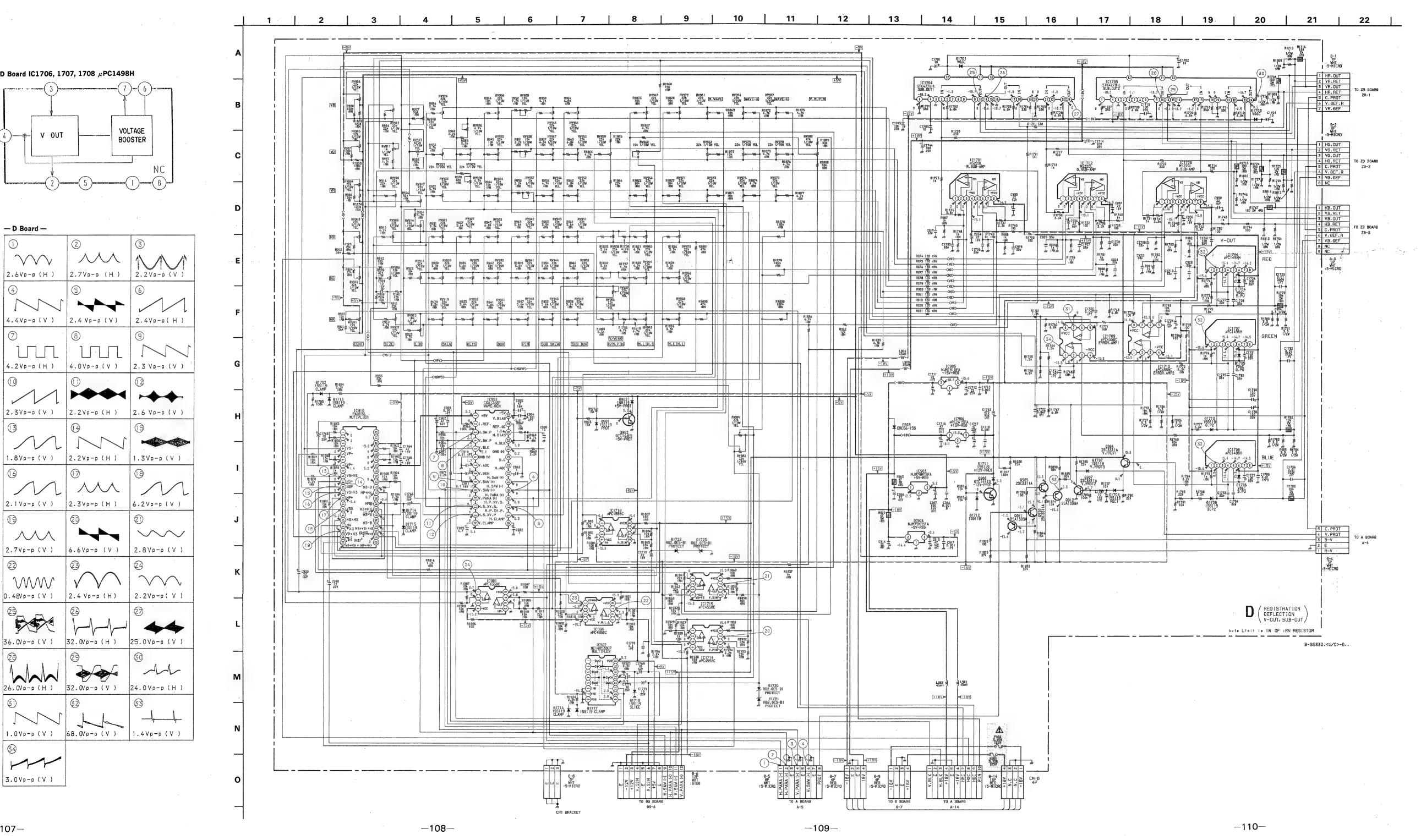
#### - UT Board -





-105-

**-106-**



D Board IC1706, 1707, 1708 μPC1498H

V OUT

- D Board -

2.6Vp-p(H)

4.4Vp-p(V)

2.3Vp-p(V)

.8Vp-p (V )

2.1 Vp-p (V )

2.7Vp-p (V )

.48Vp-p(V)

1.0Vp-p(V)

3.0Vp-p(V)

26.0Vp-p(H) 32.0Vp-p(V)

2.7Vp-p (H)

2.4 Vp-p (V)

2.2Vp-p(H)

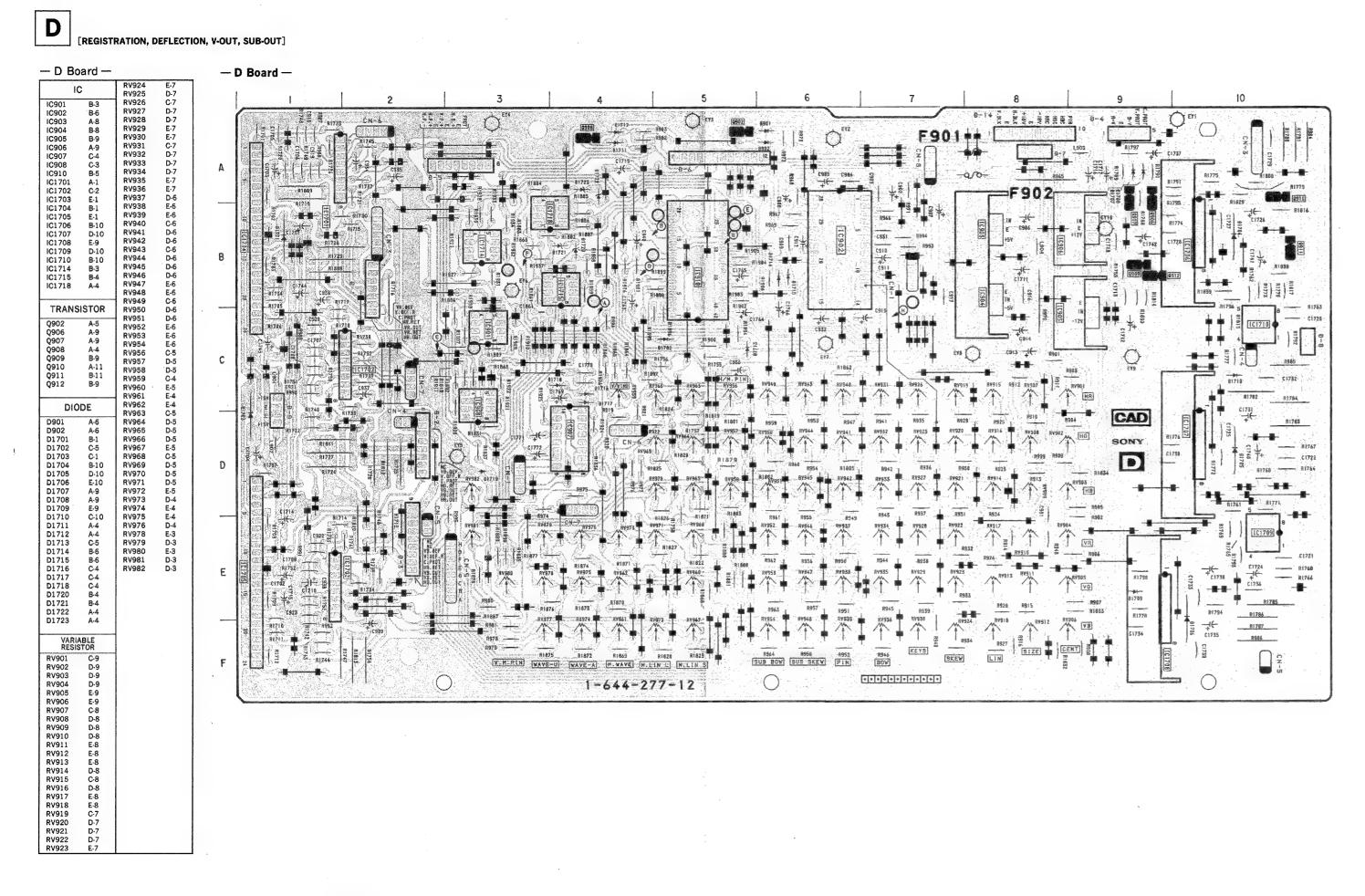
2.2Vp-p(H)

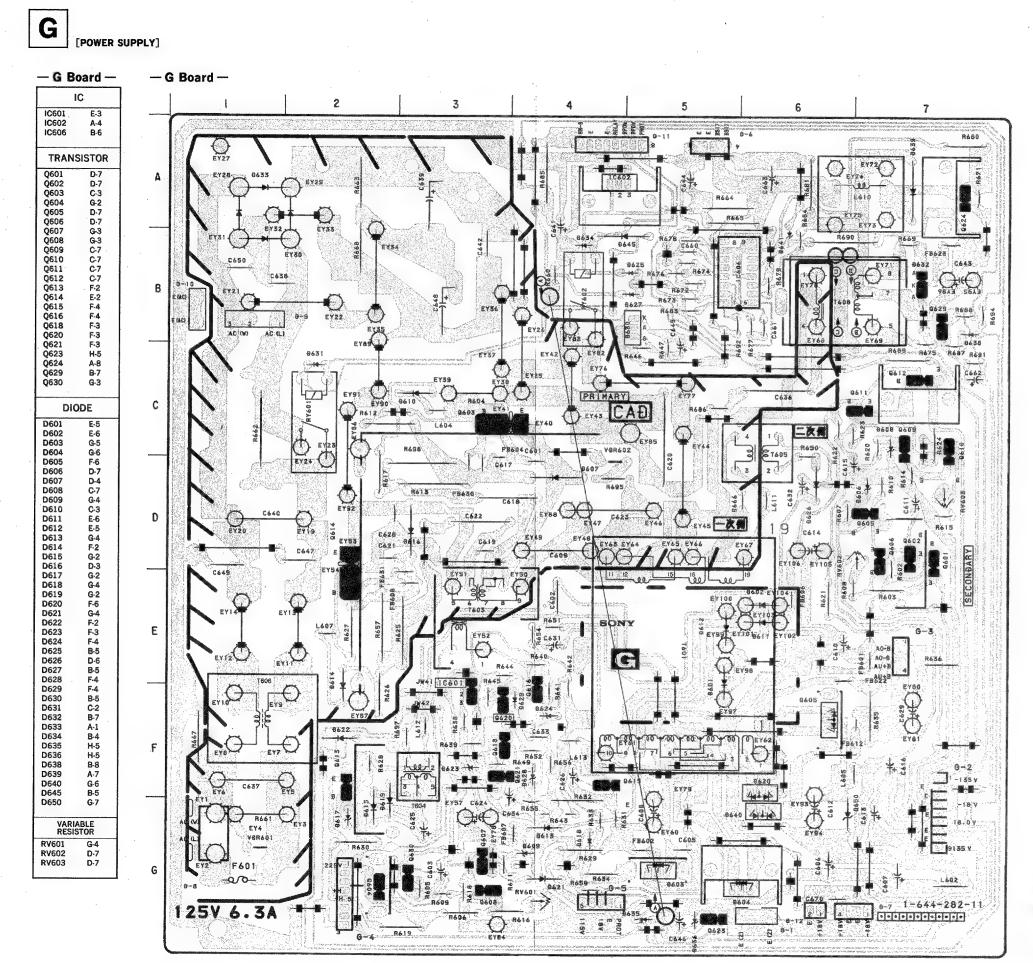
2.3Vp-p(H)

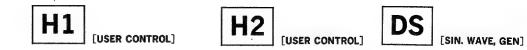
6.6Vp-p (V)

2.4 Vp-p (H)

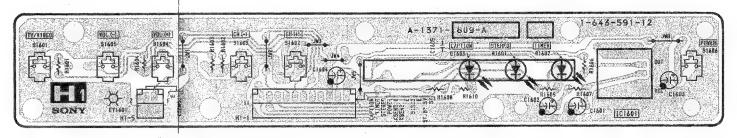
68.0Vp-p (V)



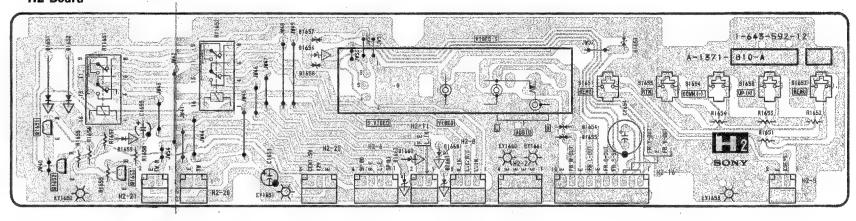




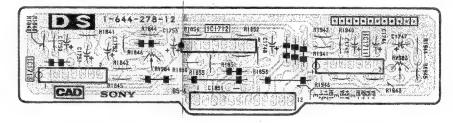
#### — H1 Board —



### — H2 Board —

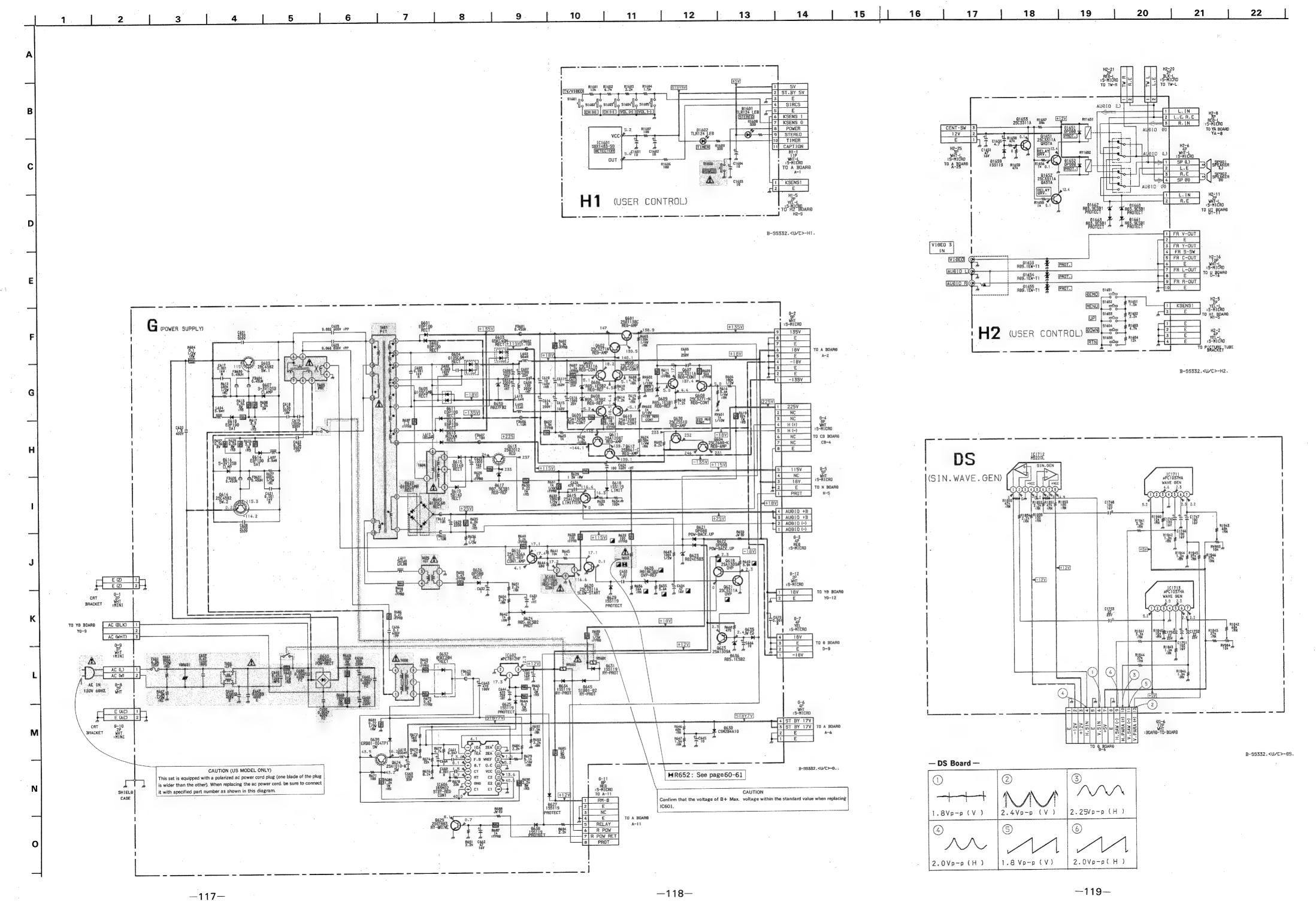


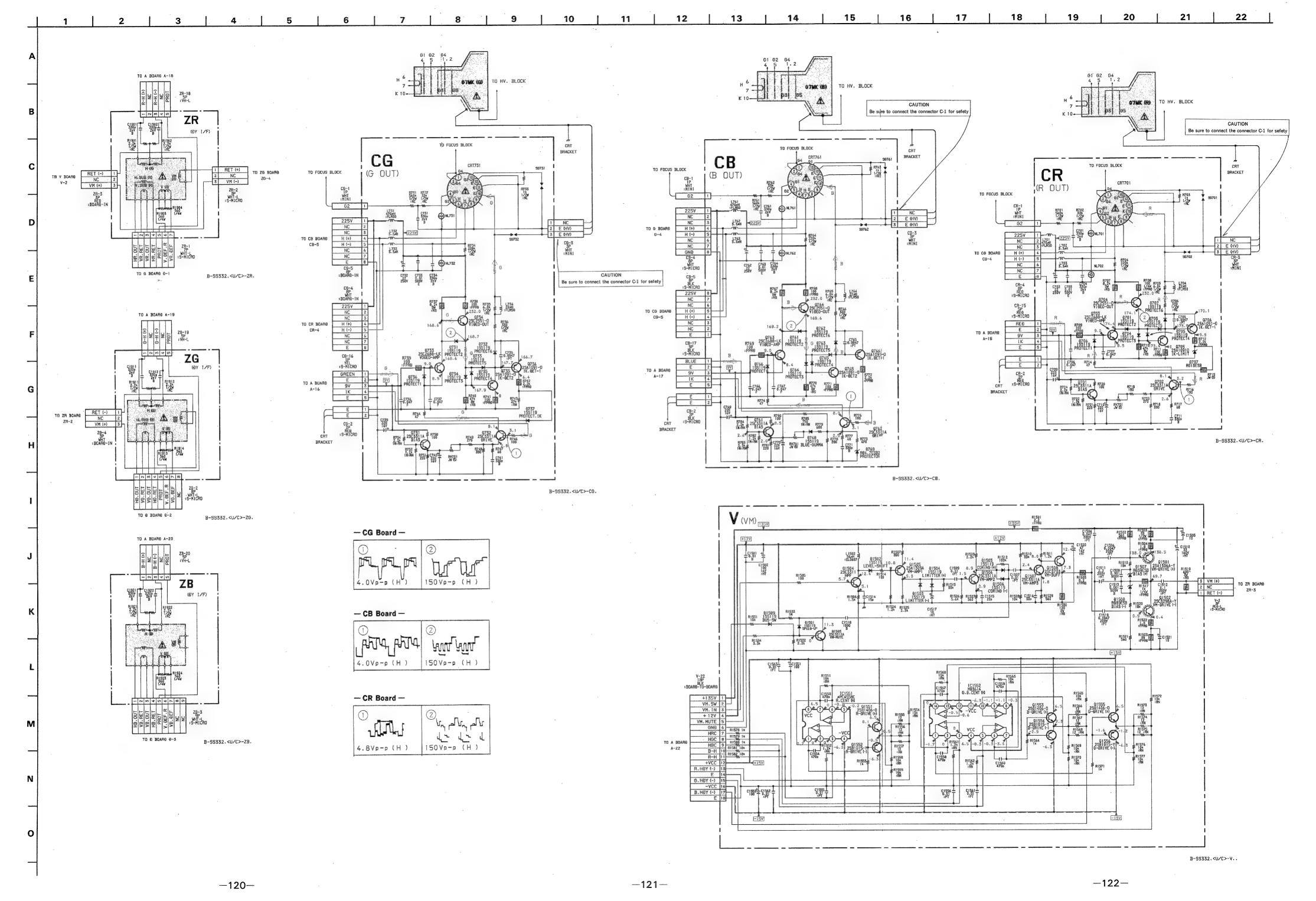
#### - DS Board -



#### NOTE:

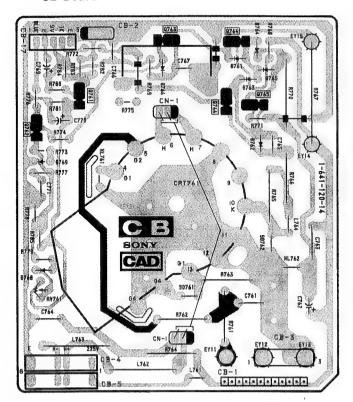
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.



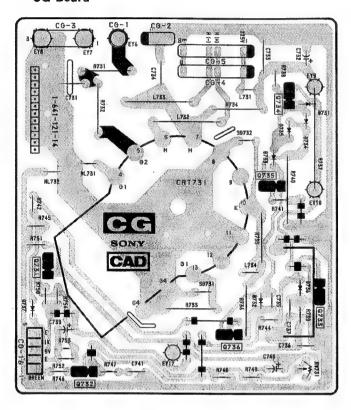




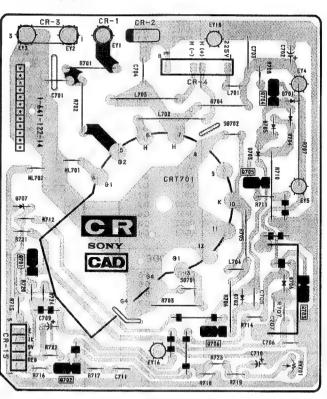
#### - CB Board -



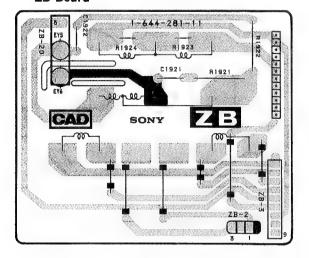
#### — CG Board —



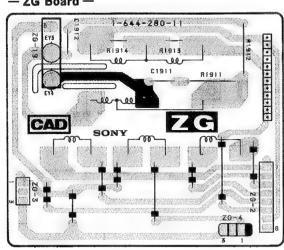
— CR Board —



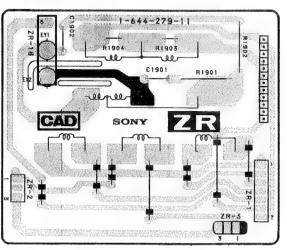
- ZB Board -



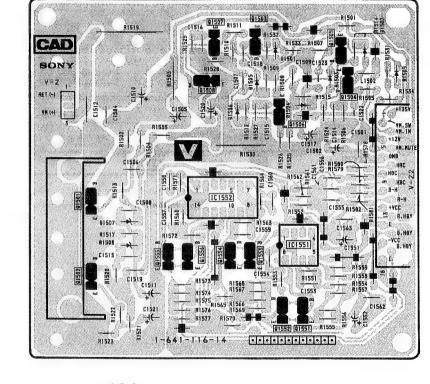
— ZG Board —



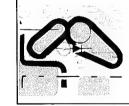
- ZR Board -



— V Board —







The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.





B-3 C-2 A-1 D-2 D-4

B-5

B-3 D-6 D-5 D-5 C-1 C-1 D-4 C-7 B-1 B-2 C-5 C-4 C-4

DIODE

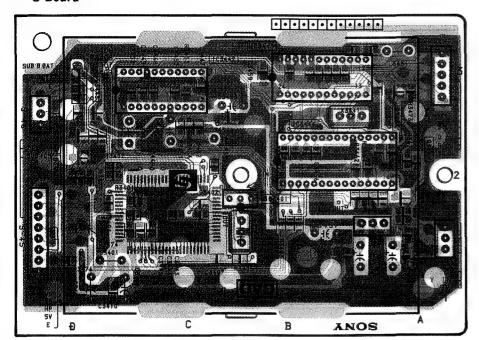
IC801 IC802 IC803 IC804 IC805

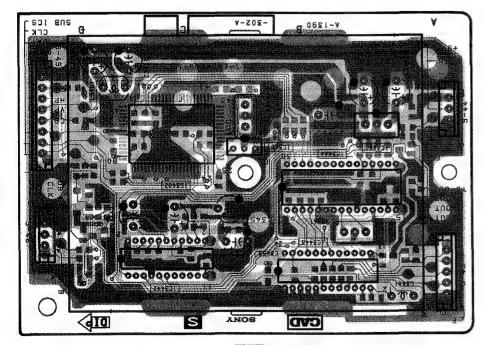
Q801 Q802 Q803 Q804 Q805 Q806 Q807 Q808 Q809 Q811 Q812 Q820 Q851 Q852 Q853

D801 D802 D803 D804 D805 D806 D807 D808 D809 D810

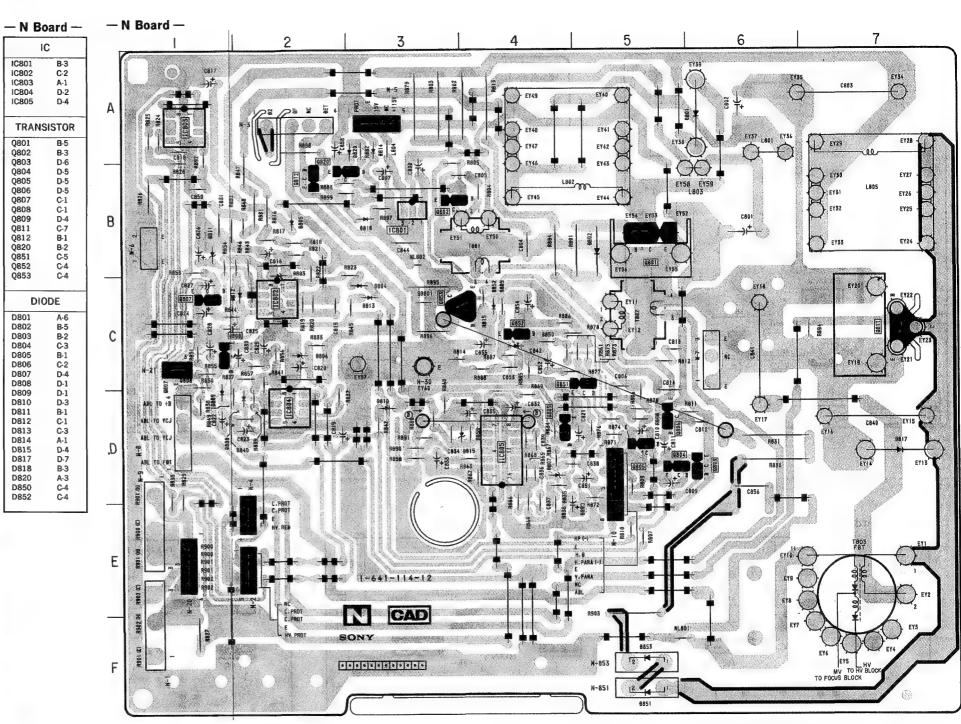
D811 D812 D813 D814 D815 D817 D818 D820 D850 D852

#### - S Board -





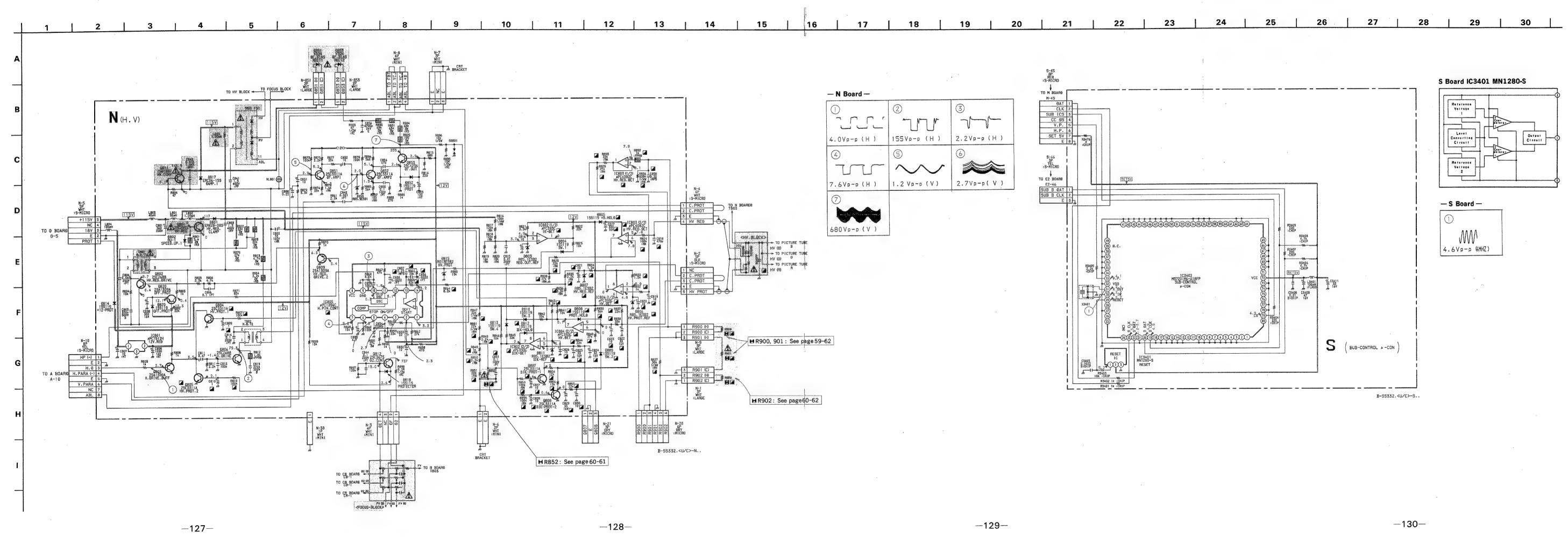
- · Pattern from the side which enables seeing
- · Pattern of the rear side

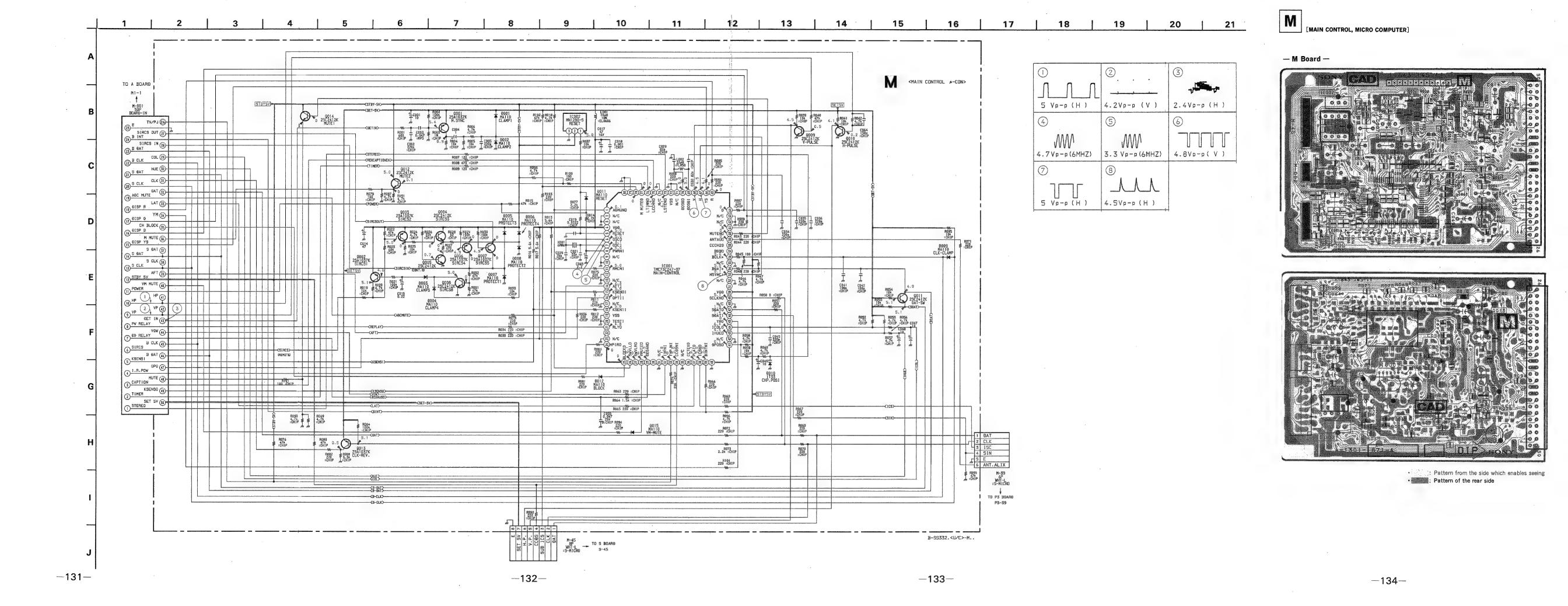


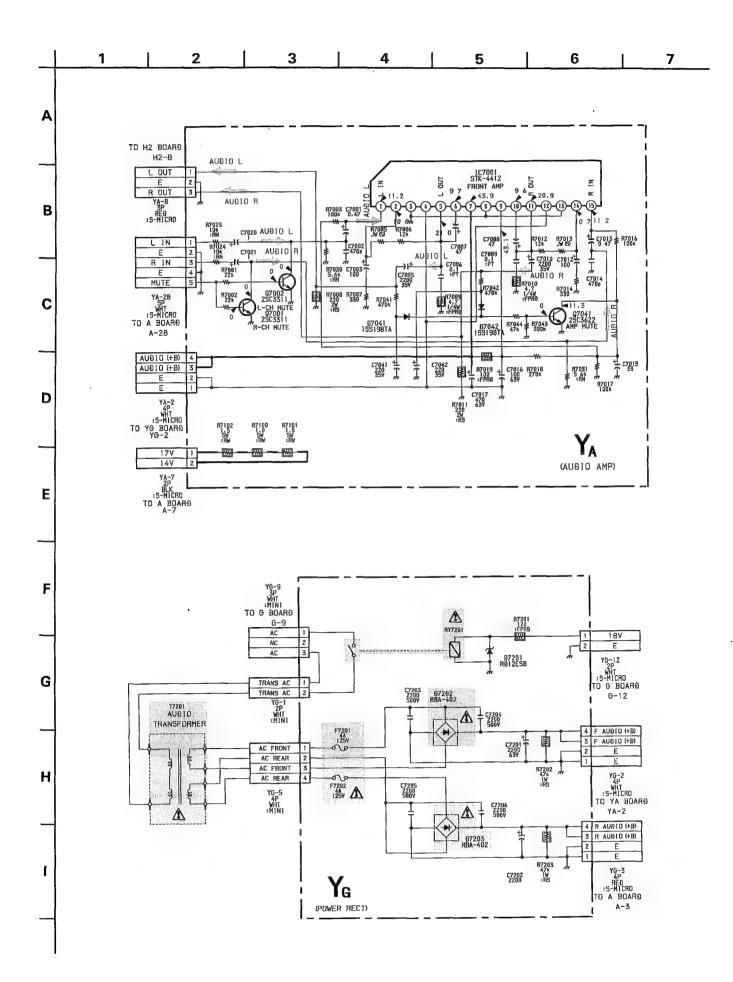


#### NOTE:

The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.







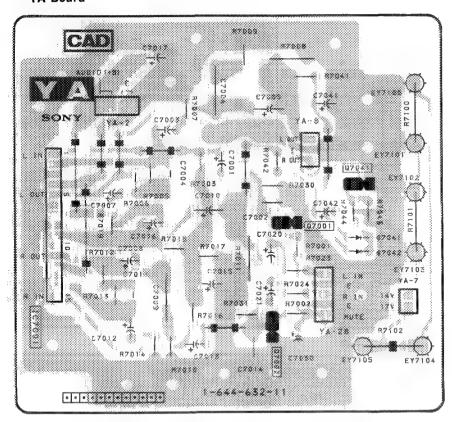


[AUDIO AMP]

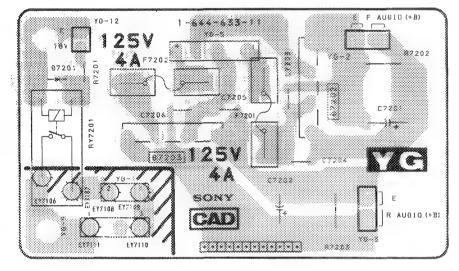


[POWER RECT]

#### - YA Board -



#### - YG Board -

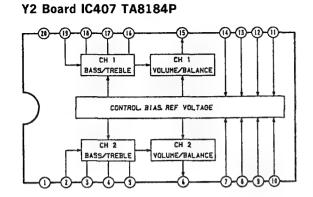


#### NOTE:

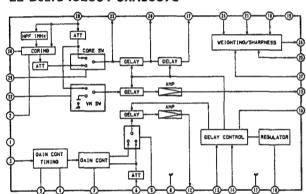
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

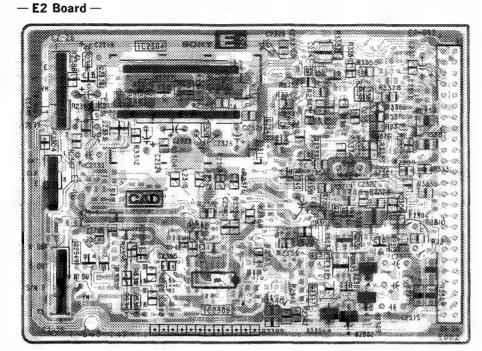
# [SHARPNESS CONT., CHARACTOR GENERATER]

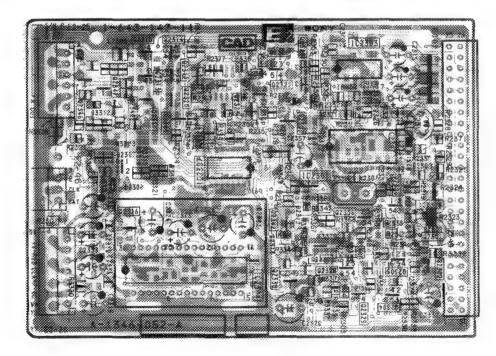
#### FO Decard



#### E2 Board IC2304 CXA1387S





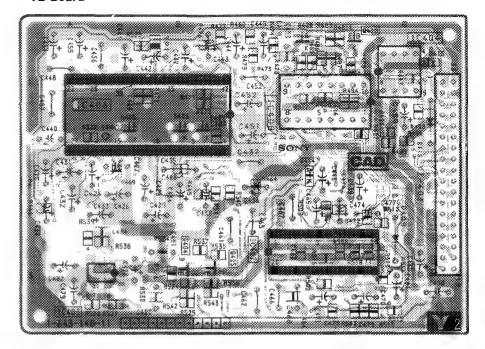


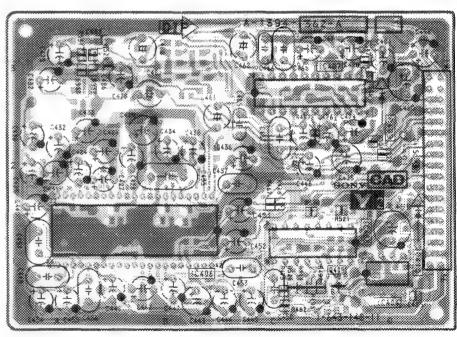
- \* Pattern from the side which enables seeing
- · Pattern of the rear side



[MTS DECORDER, NVM, AUDIO CONT]

#### — Y2 Board —





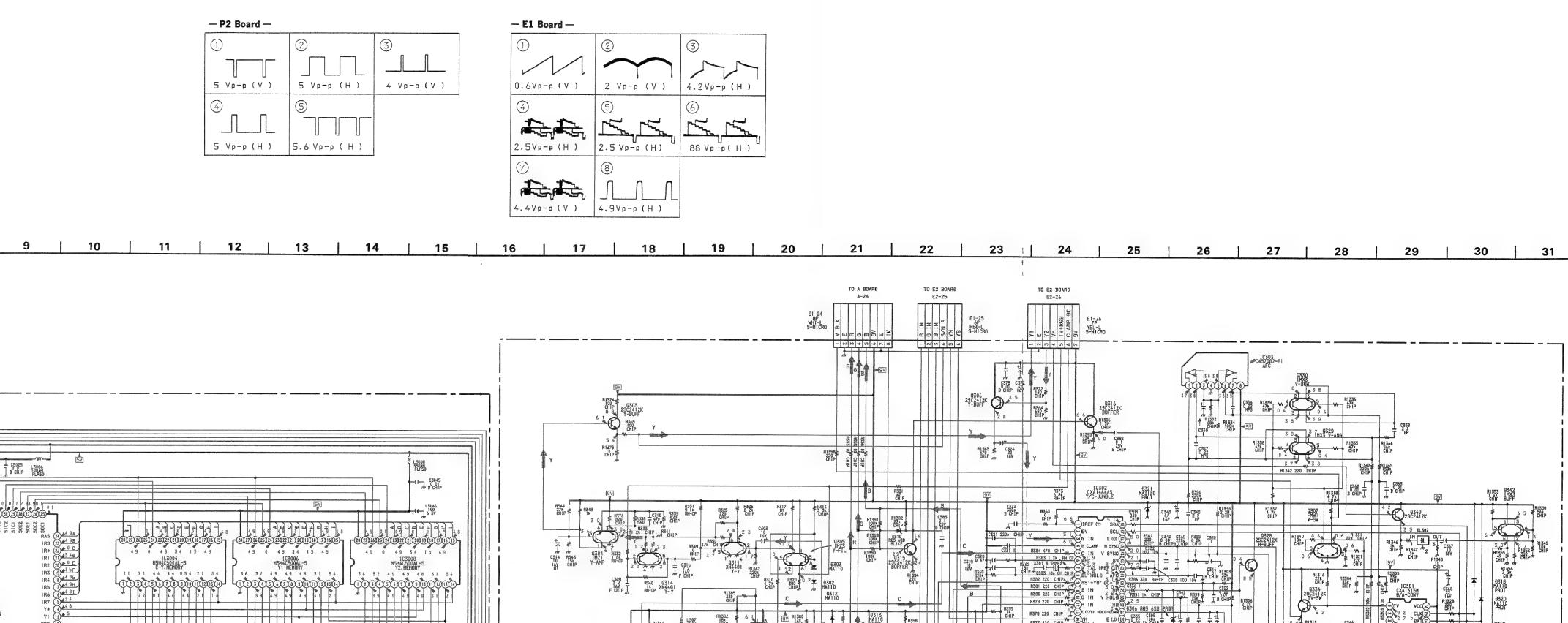
- Pattern from the side which enables seeing
- \* Pattern of the rear side

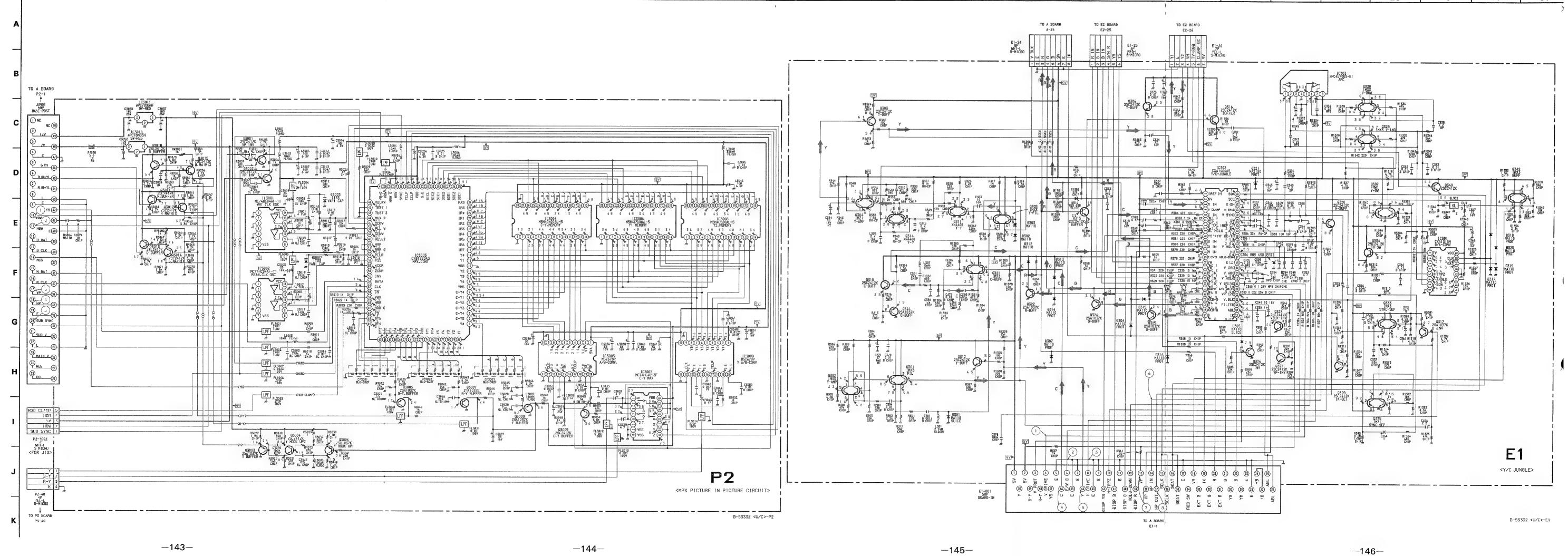
-140-

-141-

-142-

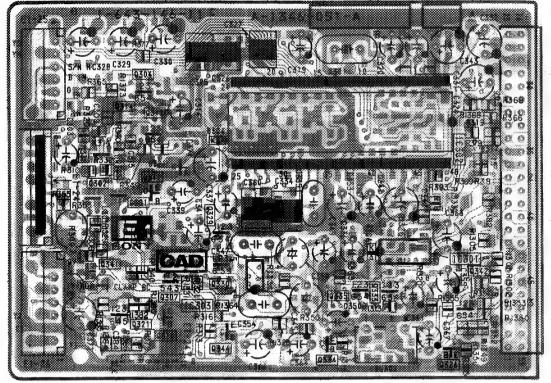
**-139**-

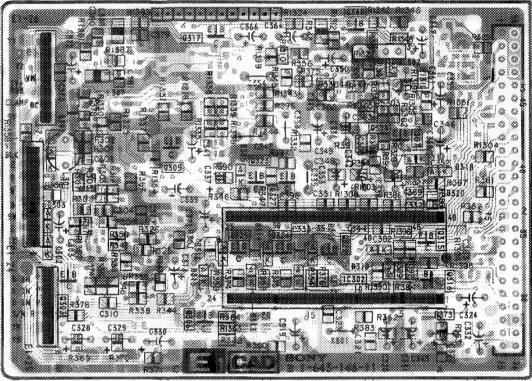






#### — E1 Board —



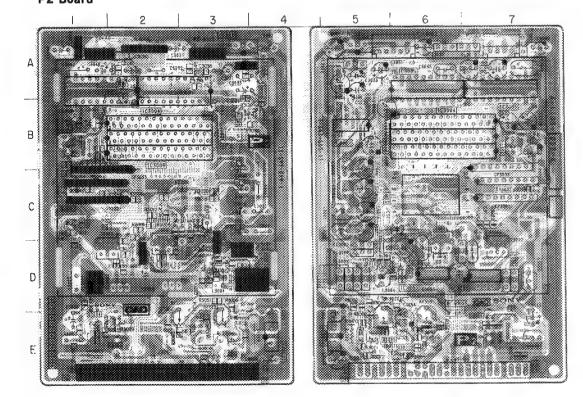


- Pattern from the side which enables seeing
- A :: Pattern of the rear side

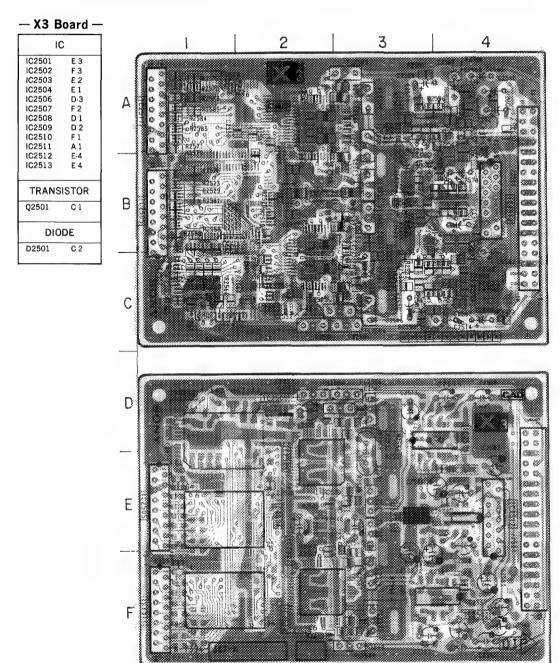
#### — P2 Board —

IC3001	D-6
IC3002	
IC3003	C-6
IC3004	B-2
IC3005	
IC3006	
IC3007	
IC3008	
IC3009	
IC3010	
IC3011	E-4
TRAP	ISISTOR
Q3001	D-3
Q3002	D-6
Q3003	E-2
Q3004	E-1
Q3005	
Q3006	E-7
Q3007	C-1
Q3008	8-1
Q3009	B-3
Q3010	E-3
Q3011	E-6
Q3012	E-6
Q3013	E-3
Q3014	E-5
03015	E-6

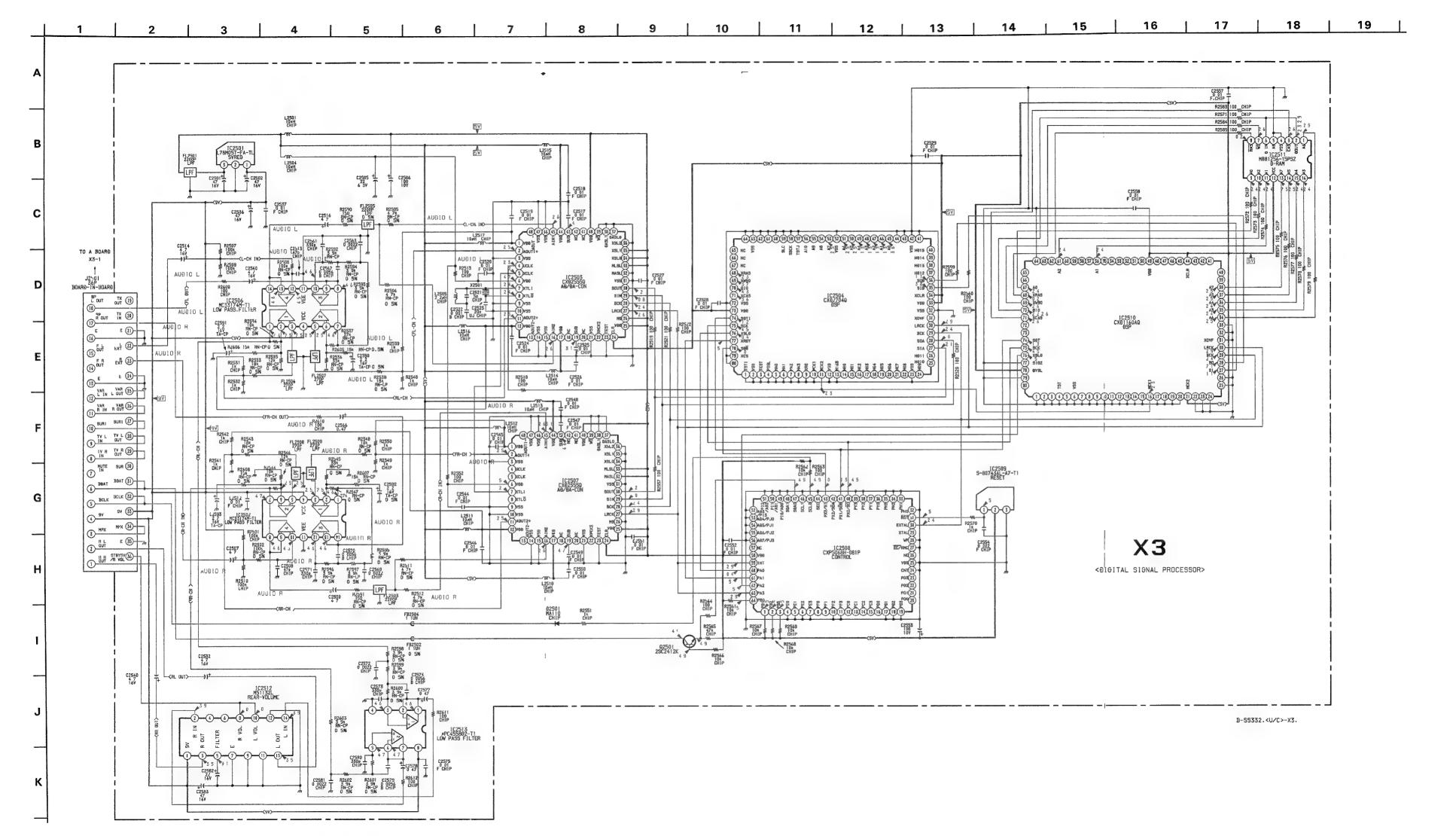
— P2 Board —

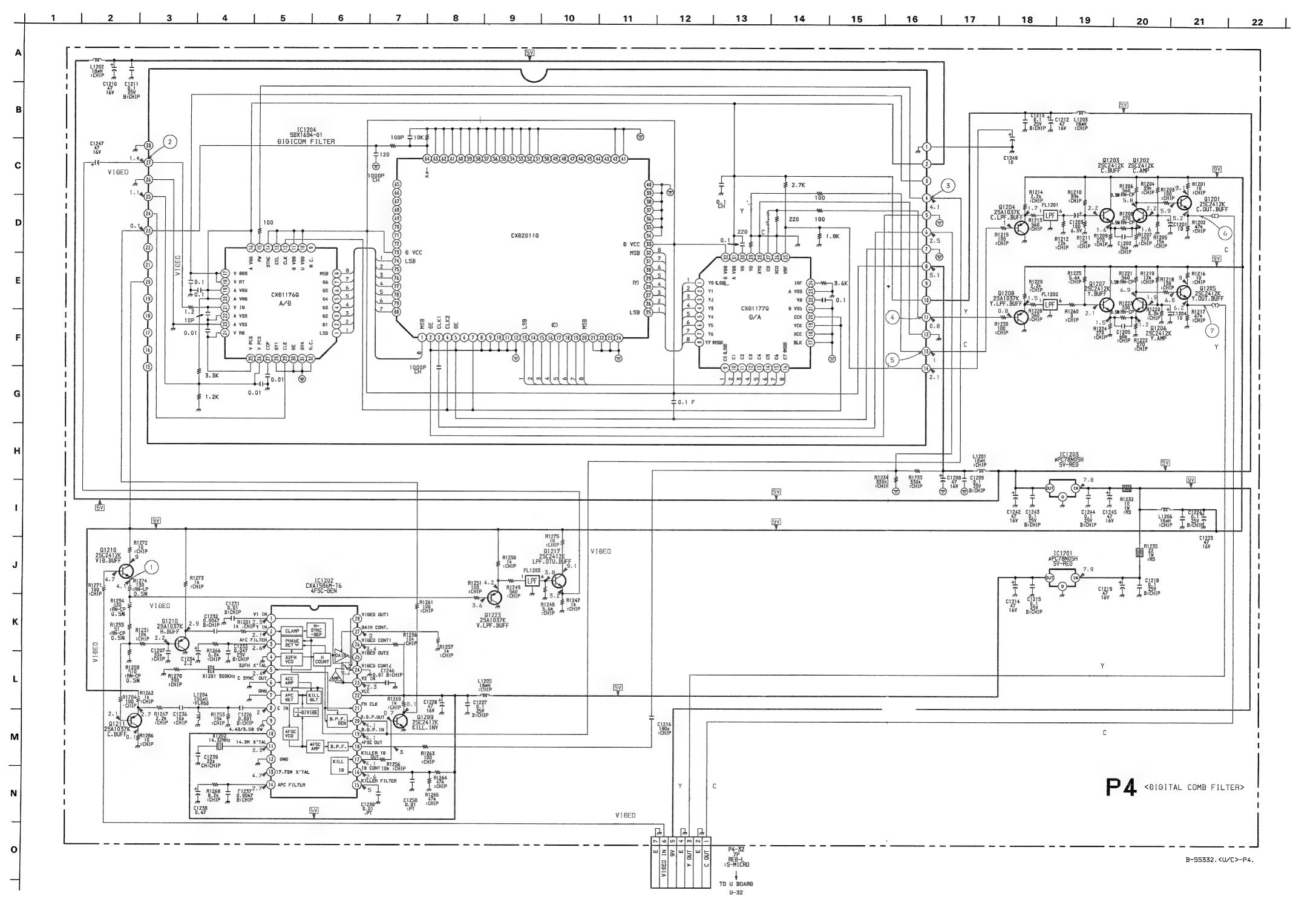


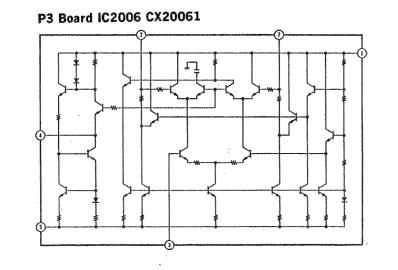
- Pattern from the side which enables seeing
- · ....: Pattern of the rear side



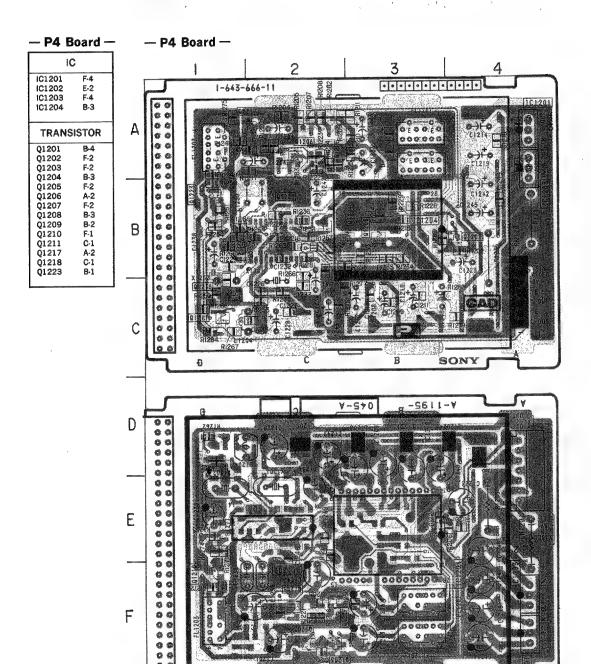
- · : Pattern from the side which enables seeing
- · Pattern of the rear side



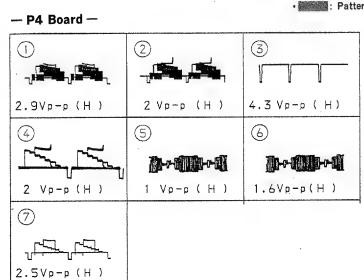




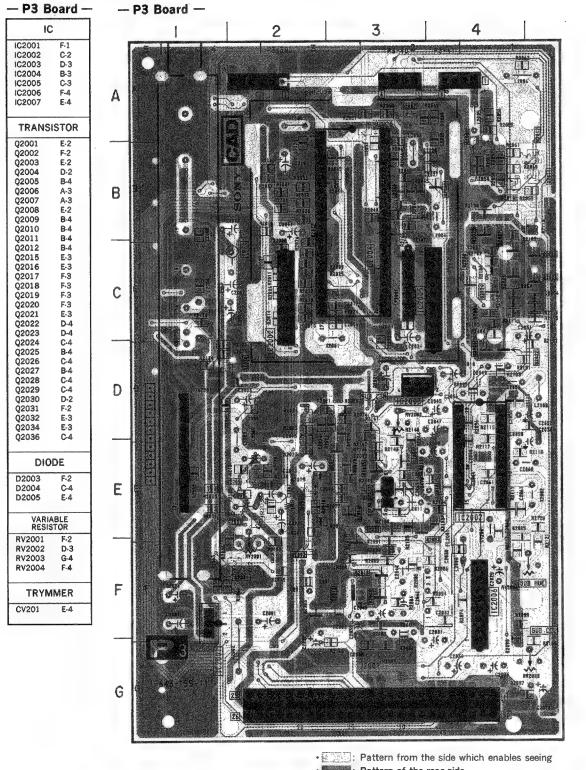




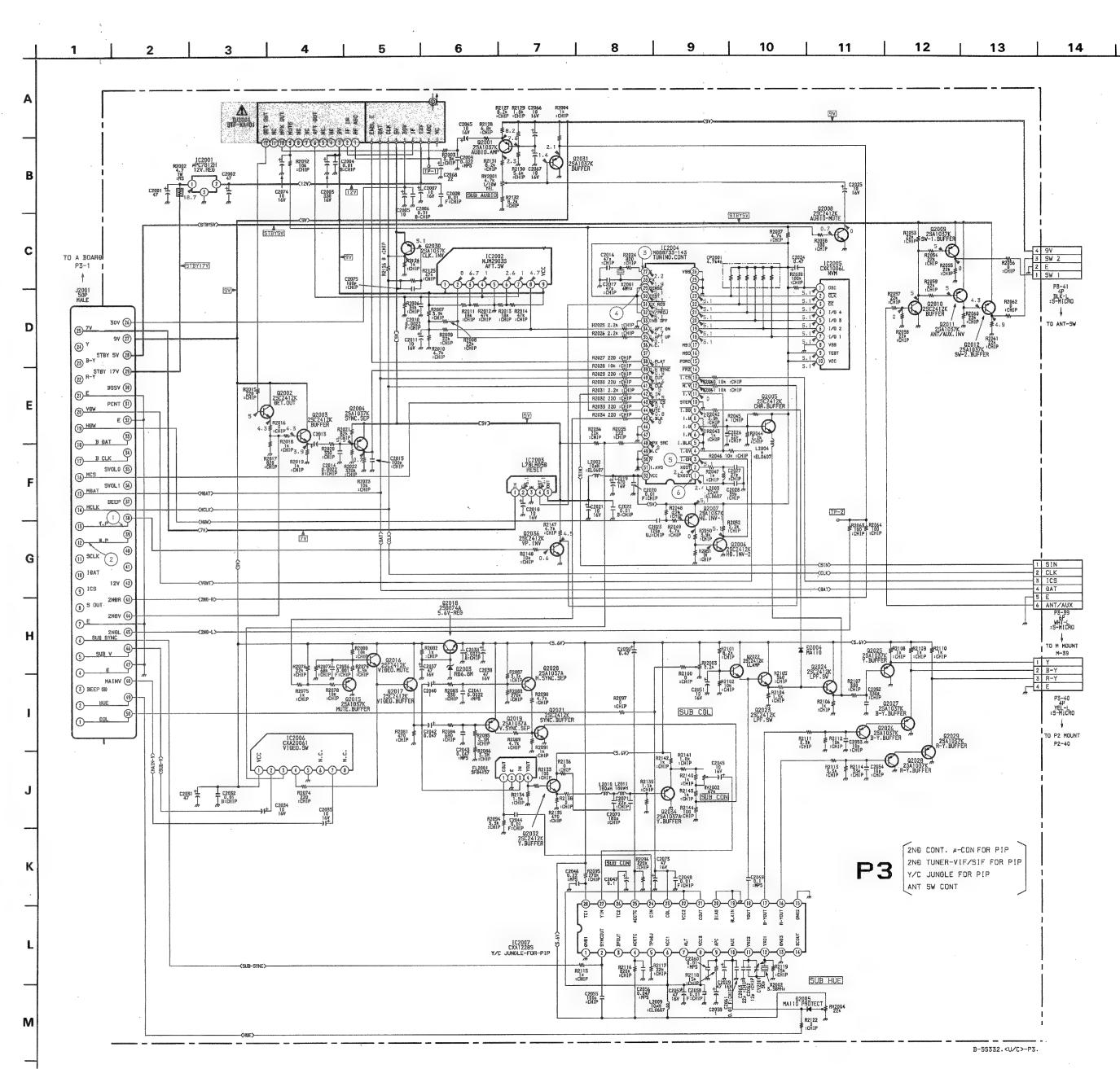
• Pattern from the side which enables seeing
• Pattern of the rear side



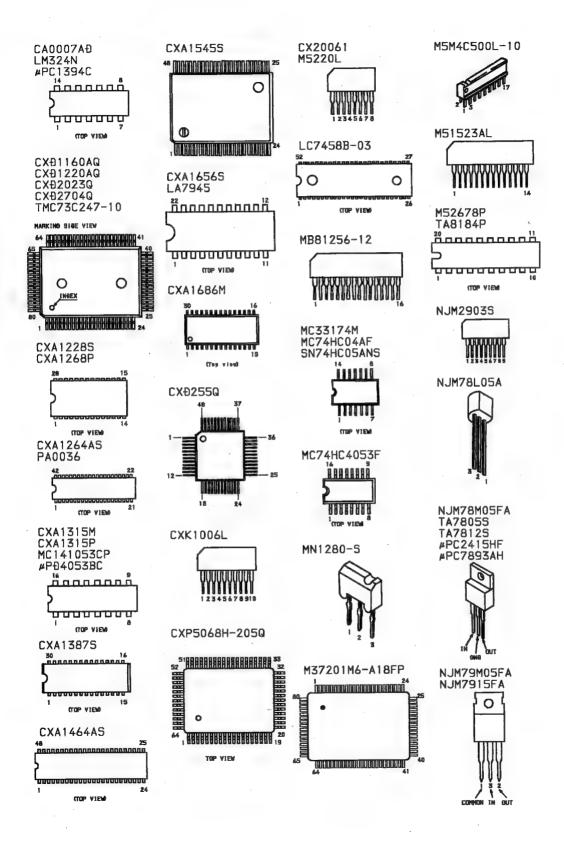
P3
2SD CONT, μ-CON FOR PIP, ANT SW CONT
2ND TUNER-VIF/SIF FOR PIP, Y/C JUNGLE FOR PIP

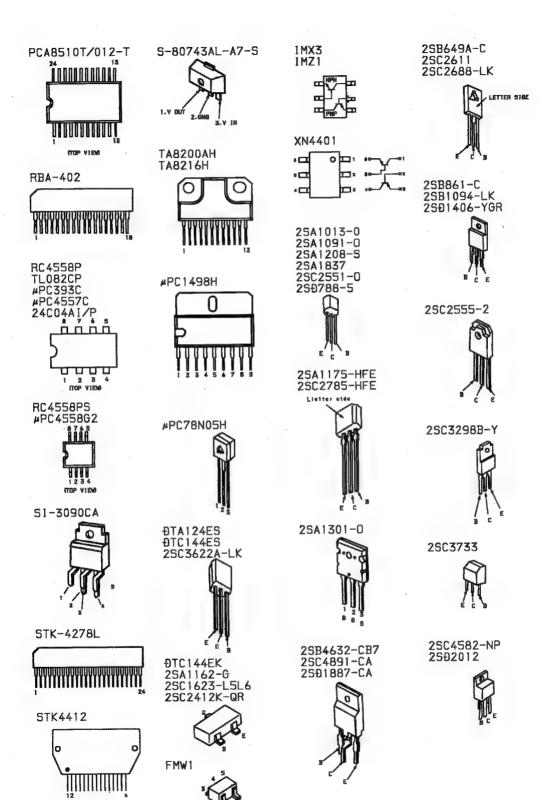


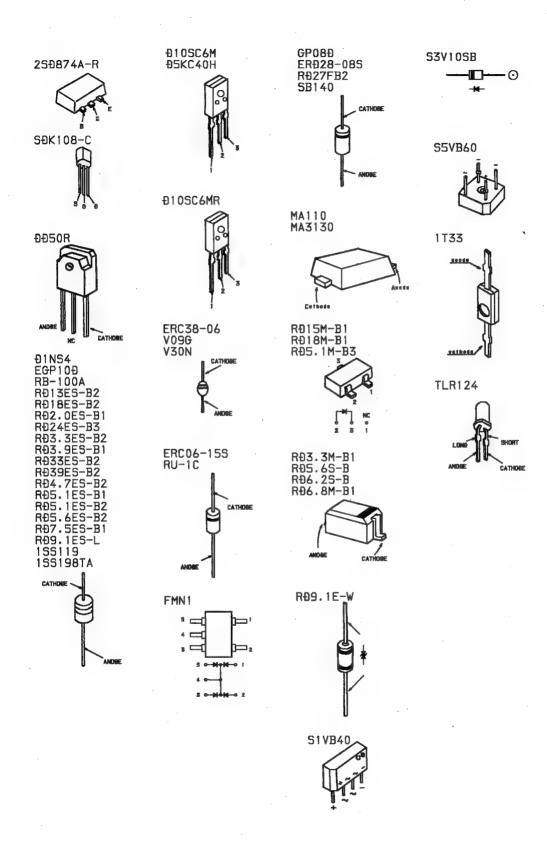
Pattern from the side which enables seeing
 Pattern of the rear side



#### 6-7. SEMICONDUCTORS







# SECTION 7 EXPLODED VIEWS

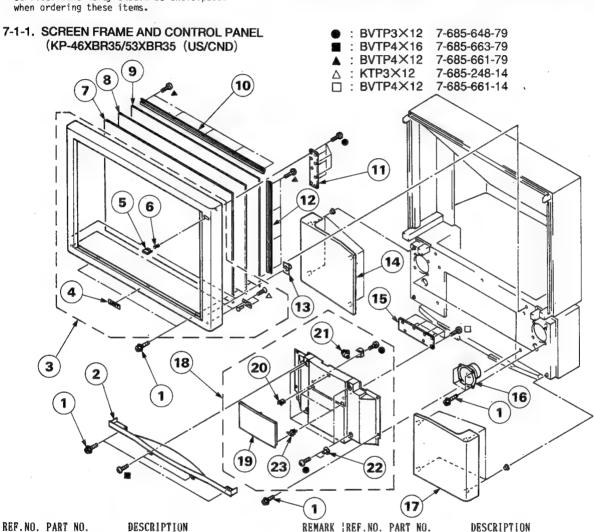
#### NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- are seldom required for routine service.
  The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark A are critical for safety.

Replace only with part number specified.

Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.



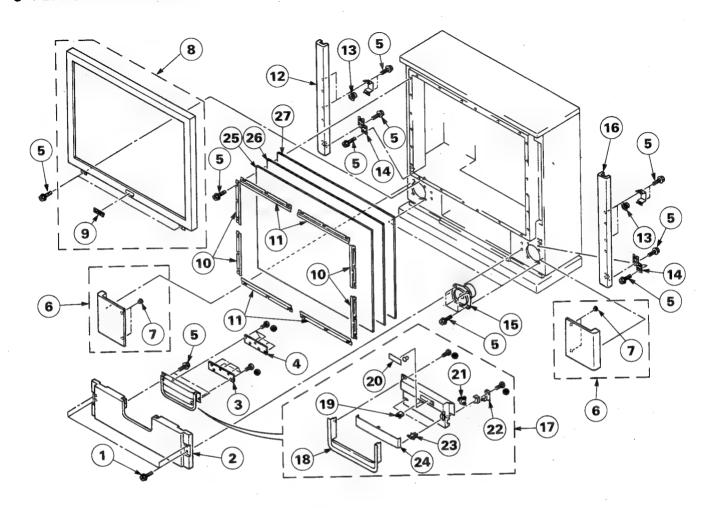
Er,NU.	PARI NU.	DESCRIPTION REMARK
1 2 3 4	4-041-164-11 4-036-470-01 X-4031-193-1 X-4031-194-1 4-381-079-01	FRAME ASSY, SCREEN (KP-53XBR35(U/C))4-6
5 6 7	4-036-523-01 3-566-903-00 4-043-235-01 4-043-238-01	
8 9	4-037-360-11 4-036-466-01 4-037-359-11	PLATE (F), DIFFUSION (KP-46XBR35)
10	4-036-469-11 4-043-240-01 4-043-240-11 4-043-240-21 4-043-240-31	HOLDER (L), SCREEN (UNDER) (KP-46XBR35) HOLDER (L), SCREEN (UNDER) (KP-53XBR35(U/C)) HOLDER (L), SCREEN (TOP) (KP-46XBR35) HOLDER (L), SCREEN (TOP)
		(KP-53XBK35(U/C))

13	*1-643-591-11 4-043-239-01 1-544-580-21 X-4030-553-1	HÖLDER (S), SCREEN SPEAKER (2.5CM)
	X-4030-570-1	
15	*1-643-592-11	H2 BOARD
16	1-504-141-11	SPEAKER (13CM)
		GRILLE (R) ASSY, SPEAKER
	X-4030-569-1	(KP-53XBR35(U/C)) GRILLE (R) ASSY, SPEAKER (KP-46XBR35)
18	X-4030-554-1 X-4030-571-1	PANEL ASSY, CONTROL (KP-53XBR35(U/C)) PANEL ASSY, CONTROL (KP-46XBR35)
19	4-036-461-01	LID, CONTRÓL (KP-46XBR35)
20	4-036-475-01 4-392-036-01	
21	3-721-204-01 3-721-204-21	DAMPER (KP-53XBR35(U/C)) DAMPER (KP-46XBR35)
22	4-843-806-00	
23	3-703-035-12	

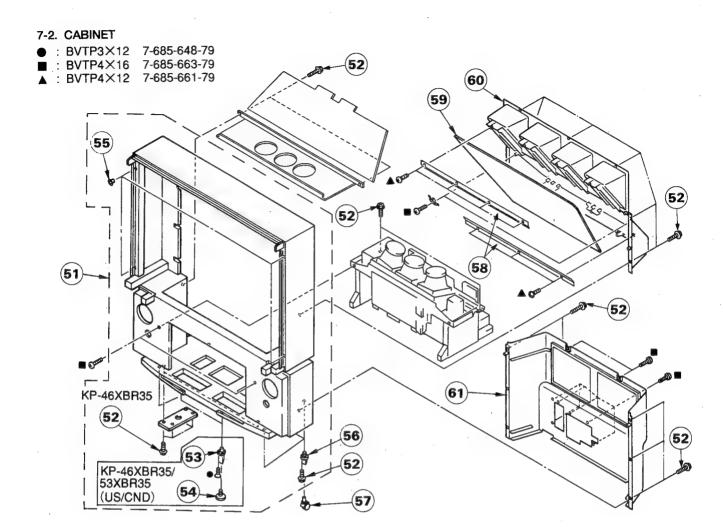
REMARK

## 7-1-2. SCREEN FRAME AND CONTROL PANEL (KP-61XBR38)

### • : BVTP3×12 7-685-648-79



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
1 2 3 4 5	X-4031-228-1 *1-643-592-11 *1-643-591-11	SCREW, TAPPING, HEXAGON HEAD PANEL ASSY, FRONT H2 BOARD H1 BOARD SCREW (4X20), TAPPING		16 17 18 19 20	X-4031-179-1 4-040-584-01	CATCHER, PUSH	18-24
6 7 8 9 10	4-838-438-00 X-4031-177-1	FRAME ASSY, SCREEN EMBLEM (NO.10), SONY	7 9	21 22 23 24 25	4-036-513-01 3-703-035-12 4-036-511-21	SPRING, LID SHAFT, LID	
12 13	*4-044-726-01 X-4031-174-1 1-504-312-11 *4-040-600-01 1-504-313-11	BRACKET, SPEAKER GRILLE		26 27	4-040-124-11 4-040-123-11	PLATE (L), DIFFUSION PLATE (F), DIFFUSION	



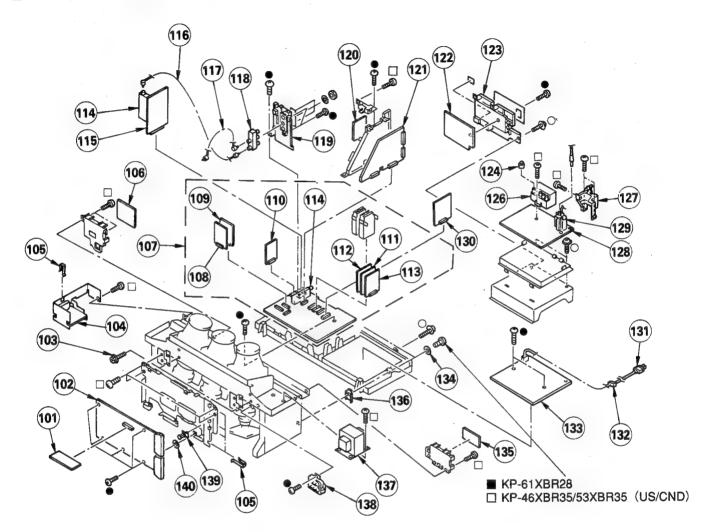
		·				
REF.NO.	PART NO.	DESCRIPTION REMARK	REF. NO	D. PART NO.	DESCRIPTION	REMARK
51	X-4031-084-1 X-4031-198-1 X-4031-887-1	CABINET ASSY (KP-46XBR35) 52-54.50 CABINET ASSY (KP-53XBR35(U/C)) 52-54.50 CABINET ASSY (KP-61XBR38) 55,56		*4-037-351-01 4-037-349-01 4-037-534-01		CTION(KP-53XBR35(U/C)) CTION (KP-46XBR35)
. 52	4-378-522-11 4-041-164-11	SCREW, TAPPING, HEXAGON HEAD (KP-61XBR38) SCREW (M4X20), TAPPING		4-040-713-01	MIRROR (61), REFLEC	CTION (KP-61XBR38)
		(KP-46XBR35/53XBR35(U/C)	60	4-036-462-01 4-036-474-01	COVER (46"), MIRROI COVER (53"), MIRROI	R (KP-46XBR35) R
53	4-037-473-01	NUT, FITTING (KP-46XBR35/53XBR35(U/C))	i	1 050 111 01		3XBR35(U/C))/61XBR38)
	4-037-472-01	LEG, ADJUSTABLE (KP-46XBR35/53XBR35(U/C)	) 61	X-4030-549-1	COVER ASSY, BACK	31151133 (0, 0, , , 011151130,
55	4-838-438-00	LATCH	1	1030 317 1		
54 55 56 57	4-030-850-01	SOCKET, CASTER	į			
57	4-032-343-11	CASTER (KP-46XBR35/53XBR35(U/C))	ĺ			
	4-040-508-11	CASTER (VD-61VRD30)	İ			

Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie. The components identified by shading and mark  $\, \Delta \,$  are critical for safety.

Replace only with part number specified.

#### 7-3. CHASSIS

■ : BVTP3×12 7-685-648-79
■ : BVTP4×16 7-685-663-79
○ : PSW4×14 7-682-663-09
□ : BVTP4×12 7-685-661-14



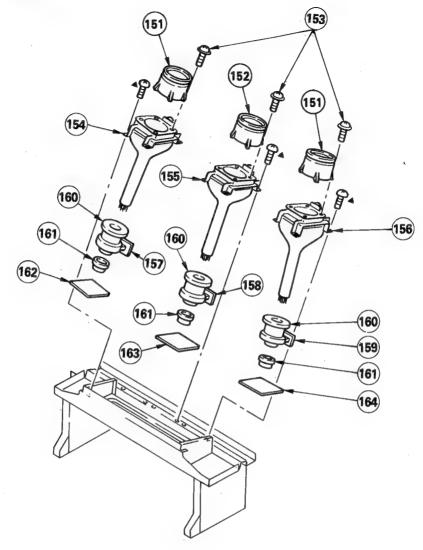
REF.NO. PART	NO. DE	SCRIPTION	REMARK	REF.NO	PART NO.	DESCRIPTION	REMARK
102 *A-13 103 4-04 104 *1-64	341-726-A D B 11-164-11 SCR 14-632-11 YA	BOARD OARD, COMPLETE EW (4X20), TAPPING BOARD ING, TRANSISTOR	!	121	*A-1394-429-A *A-1394-434-A 4-036-138-11	P4 BOARD, COMPLETE U BOARD, COMPLETE UT BOARD, COMPLETE PANEL, MAIN CONNECTOR CAP (Z), RUBBER	
		OARD, COMPLETE OARD, COMPLETE (KP-53XBR35(U/C))	108-114	127	4-034-482-01	DC BLOCK, HIGH-VOLTAGE COVER, FBT N BOARD, COMPLETE	
*A-12	297-105-A A B	OARD, COMPLETE (KP-46XBR35/61XBR38)		129	∆ 1-453-121-11	TRANSPURMER ASSY, PLIBA	CK (NX-2630B4)
		BOARD, COMPLETE BOARD, COMPLETE		131	₫ 1-696-002-12	V BOARD, COMPLETE CORD, POWER(WITH NOISE GROMMET, AC CORD	
111 *A-1	346-136-A E2	BOARD, COMPLETE BOARD, COMPLETE BOARD, COMPLETE				G BOARD, COMPLETE	
113 *A-1	346-138-A E1	BOARD, COMPLETE IER (BTF-XA401)		136	*1-664-633-11 *4-040-487-01		
116 *1-5	57-056-31 CAE			138	A 1-241-744-11 *3-670-570-21	RESISTOR ASSY (HIGH-VOL	TAGE)
118 1-4	55-400-00 CAE 17-178-11 SEI 36-137-01 PAN	BLE, PIN ECTOR, ANTENNA (AS-2) BEL, SUB CONNECTOR		140	4-866-147-00	WASHER	

Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie. The components identified by shading and mark A are critical for safety.

Replace only with part number specified.

#### 7-4. PICTURE TUBE

#### ▲ : BVTP4×12 - 7-685-661-79



REF. NO	. PART NO.	DESCRIPTION REMAR	REF.NO. PART NO.	DESCRIPTION REMARK
151	4-034-057-11 4-040-131-01	LENS (LINNIT) (KP-46XBR35/53XBR35(U/C) LENS (LINNIT) (KP-61XBR38)	156 48-736-635-05	PICTURE TUBE O7MK3(B) (KP-46XBR35/53XBR35(U/C))
152	4-034-057-01 4-040-131-11			PICTURE TUBE 07MK2(B) (KP-61XBR38)
153	3-701-810-91	SCREW, TERMINAL	158 *A-1390-346-A	
154	<b>∆</b> 8-736-636-05	PICTURE TUBE O7MK3(R)	159 *A-1390-347-A	
	A8-736-641-05	(KP-46XBR35/53XBR35(U/C) PICTURE TUBE 07MK2(R) (KP-61XBR38)	161 A1-452-443-13	NECK ASSY, PICTURE TUBE (NA367)
ככו	A8-736-634-U5	PICTURE TUBE 07MK3(G)	162 *A-1331-259-A 163 *A-1331-260-A	CR BOARD, COMPLETE CG BOARD, COMPLETE
			164 *A-1331-261-A	CR BOARD, COMPLETE

**P4** 

### **ELECTRICAL PARTS LIST**

NOTE:

The components identified by shading and mark  $\triangle$  are critical for safety.

Replace only with part number specified.

Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

- Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

#### **RESISTORS**

- · All resistors are in ohms
- F : nonflammable

When indicating parts by reference number, please include the board name.

CAPACITORS

COILS

• MF : μF, PF : μμF • MMH : пH, UH : μH

- The components identified by in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.
   Should replacement be required, replace only with the value originally used.
- \* : Selected to yield optimum performance.
- There are some cases the reference number on one board overlaps on the other board. Therefore, when ordering parts by the reference number, please include the board name.

•						include the board name.									
REF.	. NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCR	IPTION				REMARK	
	*		P4 BOARD, COMP ************************************				C1254	1-164-004-1 1-164-004-1 1-164-004-1 1-163-809-1	1 CERAMI	C CHIP O	). 1MF ). 1MF	10 10 10 10	1%	25V 25V 25V 25V	
				0.145	10%	FOV		0	ILTER>						
C1: C1: C1:	202 203 204	1-163-017-00 1-163-105-00	CERAMIC CHIP O CERAMIC CHIP O CERAMIC CHIP 3 CERAMIC CHIP O CERAMIC CHIP O	.0047MF 3PF .047MF	10% 5% 10% 5%	50V 50V 50V 25V 50V	FL1202	1-239-550-1 1-239-550-1 1-239-550-1	1 FILTER 1 FILTER	, LOW PA	ASS				
		1-163-093-00	CERAMIC CHIP 1 CERAMIC CHIP 0	OPF	5% 10%	50V 50V		<1	C>						
C1 C1	207 208 210 211	1-163-237-11	CERAMIC CHIP 2 CERAMIC CHIP 0	7PF 0.0047MF	5% 10% 10%	50V 50V 50V	101202	8-752-352-2 8-752-062-8 8-759-112-0	O IC CXD	1686M					
	213	1-126-154-11		17MF	20% 10%	6.3V 25V	101204	8-759-112-0	6 IC UPO						
C1	215	1-164-004-11 1-126-154-11	ELECT 4	L7MF	20%	6.3V		(1	OIL>						
C1 C1	216 217	1-164-004-11	CERAMIC CHIP C	). 1MF	10% 10%	25V 25V	1.1201	1-408-423-0		מחי	150UH				
C1	219	1-164-232-11	CERAMIC CHIP ( CERAMIC CHIP ( CERAMIC CHIP (	).01MF ).1MF	10% 10% 10%	25V 50V 25V	1.1202	1-414-042-1 1-414-042-1	21 INDUCT	ror -	18UH 18UH			٠	
€1	1221	1-164-004-11	CERAMIC CHIP ( CERAMIC CHIP (	).1MF	10% 10%	25V 25V		<	CONNECTOR	>					
C1	1224	1-164-004-11	CERAMIC CHIP	D.1MF	10% 10% 10%	25V 25V 25V	P4-32	*1-564-522-	li PLUG,	CONNECT	OR 7P				
C1	1226	1-164-004-11	CERAMIC CHIP (	0.1MF	10% 10%	25V 25V		<	[RANSISTO	<b>{&gt;</b>					
C1 C1 C1	1228 1229 1230 1231	1-126-154-11 1-126-157-11 1-126-157-11 1-126-157-11	ELECT ELECT	47MF 10MF 10MF 10MF	20% 20% 20% 20% 20% 10%	6.3V 6.3V 6.3V 6.3V 25V	Q1202 Q1203 Q1204 Q1205 Q1206	8-729-120- 8-729-216- 8-729-120- 8-729-120- 8-729-120-	22 TRANS 28 TRANS 28 TRANS	ISTOR 2S ISTOR 2S ISTOR 2S ISTOR 2S ISTOR 2S	5A1162-0 5C1623-1 5C1623-1	.51.6 .5L6			
C C C	1233 1234 1235	1-164-004-11 1-164-004-11 1-124-257-00 1-164-004-11	CERAMIC CHIP	0.1MF 0.1MF 2.2MF 0.1MF	10% 10% 20% 10%	25V 25V 50V 25V 25V	Q1207 Q1208 Q1209 Q1211 Q1212	8-729-216-	28 TRANS 28 TRANS 22 TRANS	ISTOR 2S ISTOR 2S ISTOR 2S ISTOR 2S ISTOR 2S	501623-1 501623-1 501162-0	.5L6 .5L6			
C C C	1239 1240 1241	1-164-004-11 1-163-809-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.1MF 0.047MF 0.047MF	10% 10% 10% 10% 10% 20%	25V 25V 25V 25V 50V 6.3V	01215	8-729-216-	22 TRANS 28 TRANS 22 TRANS	ISTOR 29 ISTOR 29 ISTOR 29	SA1162-0 SC1623-1 SA1162-0	; .5L6			
	1245	1-126-157-11	LELECT	10MF	20%	6.3V	İ	<	RESISTOR>						
C C C	1246 1249 1250 1251	1-164-232-1 1-126-157-1 1-164-004-1 1-164-232-1	1 ELECT 1 CERAMIC CHIP	10MF 0.1MF	10% 20% 10% 10%	50V 6.3V 25V 50V	R1202 R1203	1-216-025-	OO METAL OO METAL	. GLAZE . GLAZE	1K 10 100	5% 5% 5% 0.50%	1/10W 1/10W 1/10W	) )	
C	1252	1-164-004-1	1 CERAMIC CHIP	0.1MF	10%	25V	R1204		-11 METAL	. CHIP . CHIP	130 330	0.50%	1/10%	1	

**P4** 

**P**3

REF.NO. PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
R1207 1-216-025 R1208 1-216-025	-11 METAL CHIP -00 METAL GLAZE -00 METAL GLAZE -11 METAL CHIP -00 METAL GLAZE	51 0.50% 1 100 5% 1 100 5% 1 220 0.50% 1 1K 5% 1	/10W /10W /10W /10W /10W			STAL>			
R1212 1-216-067 R1213 1-216-001 R1214 1-216-049	-00 METAL GLAZE -00 METAL GLAZE -00 METAL GLAZE -00 METAL GLAZE -00 METAL GLAZE	560 5% 1 5.6K 5% 1 10 5% 1 1K 5% 1	/10W /10W	1 1202	1-577-611-11 1-567-878-11 ***********************************	VIDRATOR, CAL	JINL	******	******
R1217 1-216-077	'-00 METAL GLAZE -11 METAL CHIP '-11 METAL CHIP		/10W /10W /10W /10W /10W	C2001	*A-1195-069-A <cap 1-124-119-00="" 1-124-261-00="" 1-124-910-11="" 1-126-157-11<="" 1-164-232-11="" td=""><td>ACITOR&gt; .  ELECT</td><td>***** 47MF</td><td>20%</td><td>50<b>V</b></td></cap>	ACITOR> .  ELECT	***** 47MF	20%	50 <b>V</b>
R1222 1-216-103 R1223 1-216-089 R1224 1-216-089	H-00 METAL GLAZE H-91 METAL GLAZE H-91 METAL GLAZE H-91 METAL GLAZE H-11 METAL CHIP	180K 5% 1 47K 5% 1	/10W /10W /10W /10W /10W	C2002 C2003 C2004 C2005	1-124-910-11 1-124-119-00 1-164-232-11 1-124-261-00 1-164-232-11 1-126-157-11 1-163-031-11	ELECT ELECT CERAMIC CHIP ELECT	47MF 330MF 0.01MF 10MF	20% 20% 10% 20%	50V 16V 50V 50V
R1226 1-216-666 R1228 1-216-057 R1229 1-216-043 R1230 1-216-075	-11 METAL CHIP -00 METAL GLAZE	4.3K 0.50% 1 2.2K 5% 1 560 5% 1 12K 5% 1	/10W /10W /10W	C2008 C2009 C2010	1-136-157-00	CERAMIC CHIP	0.022MF 0.0022MF	20% 5% 20%	16V 50V 50V 50V
R1232 1-216-689 R1233 1-216-077 R1234 1-216-035 R1235 1-216-037	0-11 METAL GLAZE 7-00 METAL GLAZE 6-00 METAL GLAZE 7-00 METAL GLAZE	39K 5% 1 15K 5% 1 270 5% 1 330 5% 1	/10W /10W /10W /10W	C2013 C2014 C2015 C2016	1-126-301-11 1-164-161-11 1-163-117-00 1-163-109-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	1MF 0.0022MF 100PF 47PF	20% 10% 5% 5%	50V 50V 50V 50V
R1239 1-216-073 R1241 1-216-035 R1242 1-216-043 R1243 1-216-689	5-00 METAL GLAZE 3-00 METAL GLAZE 3-11 METAL GLAZE	10K 5% 1 270 5% 1 560 5% 1	/10W  /10W  /10W  /10W  /10W	C2018 C2019 C2020 C2021	1-163-109-00 1-124-465-00 1-126-103-11 1-163-031-11 1-126-157-11	ELECT CERAMIC CHIP ELECT	470MF 0.01MF 10MF	5% 20% 20% 20%	50V 50V 16V 50V 16V
R1244 1-216-025 R1245 1-216-001 R1246 1-216-07 R1247 1-216-089 R1248 1-216-635			/10W  /10W  /10W  /10W  /10W	C2022 C2023 C2024 C2025 C2026	1-164-232-11 1-163-119-00 1-124-465-00 1-126-157-11 1-163-101-00	CERAMIC CHIP CERAMIC CHIP ELECT ELECT CERAMIC CHIP	0.01MF 120PF 0.47MF 10MF 22PF	10% 5% 20% 20% 5%	50V 50V 50V 16V 50V
R1251 1-216-057	5-00 METAL GLAZE  3-00 METAL GLAZE  7-00 METAL GLAZE  5-00 METAL GLAZE  7-00 METAL GLAZE	100 5% 1 560 5% 1 2.2K 5% 1 0 5% 1 5.6K 5%	/10W  /10W  /10W  /10W	C2027 C2028 C2029 C2031 C2032	1-163-119-00 1-124-465-00 1-126-157-11 1-163-101-00 1-163-107-00 1-163-107-00 1-124-477-11 1-124-910-11 1-164-232-11 1-126-157-11 1-126-157-11	CERAMIC CHIP CERAMIC CHIP ELECT ELECT CERAMIC CHIP	27PF 39PF 47MF 47MF 0.01MF	5% 5% 20% 20% 10%	50V 50V 16V 50V 50V
R1254 1-216-035 R1255 1-216-635 R1256 1-216-035 R1257 1-216-645 R1258 1-216-073	5-00 METAL CHIP 5-01 METAL CHIP	270 5% 1 560 0.50% 1	1/10W 1/10W	C2034 C2035 C2036 C2037 C2038	1-124-477-11	ELECT ELECT CERAMIC CHIP ELECT CERAMIC CHIP	47MF	20% 20% 20% 10%	16V 16V 50V 16V 50V
R1259 1-216-644 R1260 1-216-075 R1261 1-216-025 R1262 1-216-045	4-11 METAL CHIP 5-00 METAL GLAZE 5-00 METAL GLAZE 9-00 METAL GLAZE	510 0.50% 1 12K 5% 1 100 5% 1 1K 5% 1	1/10W 1/10W 1/10W 1/10W	C2039 C2040 C2041 C2042 C2043	1-124-903-11 1-137-366-11 1-124-902-00	ELECT	47MF 1MF 0.0022MF 0.47MF 0.047MF	20% 20% 5% 20% 5%	16V 50V 50V 50V 50V
R1263 1-216-029 R1264 1-216-029 R1265 1-216-06 R1266 1-216-00 R1267 1-216-05	5-00 METAL GLAZE 1-00 METAL GLAZE 1-00 METAL GLAZE 7-00 METAL GLAZE	100 5% 1 3.3K 5% 1 10 5% 1 2.2K 5%	1/10W 1/10W 1/10W 1/10W 1/10W	C2044 C2045 C2046 C2047 C2048	1-126-157-11 1-136-169-00 1-124-463-00		10MF 0.22MF 0.1MF	20% 5% 20%	50V 16V 50V 50V 50V
R1268 1-216-08 R1269 1-216-04 R1270 1-216-29 R1273 1-216-04 R1274 1-216-29 R1276 1-216-29	9-00 METAL GLAZE 5-00 METAL GLAZE 9-00 METAL GLAZE 5-00 METAL GLAZE	1K 5% 1 1K 5% 1 1K 5% 1 0 5% 1 0 5% 1	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W	C2049 C2050 C2051 C2052 C2053	1-124-902-00 1-126-157-11 1-163-129-00	ELECT ELECT CERAMIC CHIP		5% 20% 20% 5% 5%	50V 50V 16V 50V 50V

**P3** 

Les composants identifiés par une trame et par une marque À sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.

				DDMARP
REF.NO. PART NO.	DESCRIPTION	REMAI	K   REF.NO. PART NO. DESCRIPTION	REMARK
	CERAMIC CHIP 10PF CERAMIC CHIP 100PF FILM 0.047MF ELECT 47MF		<pre> <connector>  P3-39 *1-564-521-11 PLUG, CONNECTOR 6P P3-40 *1-564-519-11 PLUG, CONNECTOR 4P P3-41 *1-564-519-11 PLUG, CONNECTOR 4P</connector></pre>	
C2059 1-136-177-00 C2060 1-136-153-00	FILM 1MF FILM 0.01MF	5% 50V	<transistor></transistor>	
C2062 1-163-095-00 C2063 1-163-101-00	CERAMIC CHIP 12PF CERAMIC CHIP 22PF	5% 50V 5% 50V	Q2001 8-729-216-22 TRANSISTOR 2SA1162-G Q2002 8-729-120-28 TRANSISTOR 2SC1623-L5L6 Q2003 8-729-120-28 TRANSISTOR 2SC1623-L5L6	
C2065 1-126-320-11 C2066 1-126-157-11 C2067 1-126-157-11	ELECT 10MF	10% 50V 20% 16V 20% 16V 20% 16V	Q2004 8-729-216-22 TRANSISTOR 2SA1162-G   Q2005 8-729-120-28 TRANSISTOR 2SC1623-L5L6   Q2006 8-729-120-28 TRANSISTOR 2SC1623-L5L6	
C2068 1-124-916-11 C2070 1-163-257-11 C2073 1-124-477-11	ELECT ZZMP	20% 50V 5% 50V 20% 16V 5% 50V	Q2007 8-729-216-22 TRANSISTOR 2SA1162-G   Q2008 8-729-920-74 TRANSISTOR 2SC2412K-QR   Q2009 8-729-216-22 TRANSISTOR 2SA1162-G   Q2010 8-729-120-28 TRANSISTOR 2SC1623-L5L6	
C2075 1-163-117-00		5% 50V	Q2011 8-729-216-22 TRANSISTOR 2SA1162-G Q2012 8-729-216-22 TRANSISTOR 2SA1162-G Q2015 8-729-216-22 TRANSISTOR 2SA1162-G	
	WORK> NETWORK, RES, THICK FIL	M	02016 8-729-120-28 TRANSISTOR 25C1623-L5L6 02017 8-729-120-28 TRANSISTOR 25C1623-L5L6	
	MMER> CAP, TRIMMER		Q2018 8-729-420-81 TRANSISTOR 2SD874A-R Q2019 8-729-216-22 TRANSISTOR 2SA1162-G Q2020 8-729-216-22 TRANSISTOR 2SA1162-G Q2021 8-729-120-28 TRANSISTOR 2SC1623-L5L6 Q2022 8-729-120-28 TRANSISTOR 2SC1623-L5L6	
<010	DE>		02023 8-729-120-28 TRANSISTOR 2SC1623-L5L6	
D2003 8-719-106-16 D2004 8-719-404-46 D2005 8-719-404-46	DIODE RD6.8M-B1 DIODE MAI10 DIODE MAI10 DIODE RD3.3M-R1		Q2024 8-729-120-28 TRANSISTOR 2SC1623-L5L6 Q2025 8-729-216-22 TRANSISTOR 2SA1162-G Q2026 8-729-216-22 TRANSISTOR 2SA1162-G Q2027 8-729-216-22 TRANSISTOR 2SA1162-G	
D2007 8-719-911-19	DIODE MAIIO DIODE MAIIO DIODE RD3.3M-B1 DIODE 1SS119		Q2028 8-729-216-22 TRANSISTOR 2SA1162-G Q2029 8-729-216-22 TRANSISTOR 2SA1162-G Q2030 8-729-216-22 TRANSISTOR 2SA1162-G Q2031 8-729-216-22 TRANSISTOR 2SA1162-G	
FL2001 1-235-941-11	YC MODULE		Q2031 8-729-216-22 TRANSISTOR 25A1162-G Q2032 8-729-120-28 TRANSISTOR 25C1623-L5L6	
<1C>			Q2033 8-729-600-12 TRANSISTOR 25K108-C Q2034 8-729-216-22 TRANSISTOR 25A1162-G Q2035 8-729-120-28 TRANSISTOR 25C1623-L5L6 Q2036 8-729-120-28 TRANSISTOR 25C1623-L5L6	
IC2001 8-759-231-58 IC2002 8-759-700-48 IC2003 8-759-805-37 IC2004 8-759-066-51	IC NJM2903S IC L78LRO5D-MA		<resistor></resistor>	
	IC CXK1006L IC CX20061		R2002A1-216-357-91 METAL OXIDE 4.7 5% R2003 1-216-061-00 METAL GLAZE 3.3K 5% R2004 1-216-049-00 METAL GLAZE 1K 5% R2006 1-216-689-11 METAL GLAZE 39K 5% R2007 1-216-063-00 METAL GLAZE 3.9K 5%	1W F 1/10W 1/10W 1/10W 1/10W
<jac< td=""><td>CK&gt;</td><td></td><td>R2008 1-216-081-00 METAL GLAZE 22K 5%</td><td>1/10W</td></jac<>	CK>		R2008 1-216-081-00 METAL GLAZE 22K 5%	1/10W
	CONNECTOR (MALE) 50P		R2008 1-216-081-00 METAL GLAZE 22K 5%   R2009 1-216-081-00 METAL GLAZE 22K 5%   R2010 1-216-065-00 METAL GLAZE 4.7K 5%   R2011 1-216-079-00 METAL GLAZE 18K 5%   R2012 1-216-089-91 METAL GLAZE 47K 5%	1/10W 1/10W 1/10W 1/10W
<01			R2013 1-216-079-00 METAL GLAZE 18K 5%	1/10W
L2002 1-410-663-31 L2003 1-410-667-31 L2004 1-410-663-31 L2009 1-410-663-31	INDUCTOR 22UH INDUCTOR 10UH INDUCTOR 10UH		R2013       1-216-079-00       METAL GLAZE       18K       5%         R2014       1-216-089-91       METAL GLAZE       47K       5%         R2015       1-216-033-00       METAL GLAZE       220       5%         R2016       1-216-295-00       METAL GLAZE       0       5%         R2017       1-216-047-00       METAL GLAZE       820       5%	1/10W 1/10W 1/10W 1/10W
L2010 1-410-677-31 L2011 1-410-677-31			R2018 1-216-049-00 METAL GLAZE 1K 5% R2019 1-216-049-00 METAL GLAZE 1K 5% R2020 1-216-037-00 METAL GLAZE 330 5% R2021 1-216-095-00 METAL GLAZE 82K 5% R2022 1-216-109-00 METAL GLAZE 330K 5%	1/10W 1/10W 1/10W 1/10W 1/10W

The components identified by shading and mark  $\Lambda$  are critical for safety.

cal for safety.
Replace only with part number specified.

Les composants identifiés par une trame et par une marque À sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.

**P3** 

REF.NO. PART NO.					IDEE NO	PART NO.	DESCRIPTION				REMARK
REF. NO. FART NO.	DESCRIPTION				 LEF.NO.	PART NO.	DESCRIPTION				
R2023 1-216-073-00 R2024 1-216-047-00	METAL GLAZE	10K 820	5% 5%	1/10W 1/10W	1		METAL GLAZE	0	5%	1/10W	
R2025 1-216-057-00 R2026 1-216-057-00	METAL GLAZE METAL GLAZE	820 2.2K 2.2K	5% 5%	1/10W 1/10W	R2101	1-216-295-00 1-216-071-00	METAL GLAZE	0 8.2K	5% 5%	1/10W 1/10W	
R2027 1-216-033-00		220	5%	1/10W	R2104	1-216-073-00 1-216-053-00	METAL GLAZE	10K 1.5K 560	5% 5% 5%	1/10W 1/10W	
R2028 1-216-073-00 R2029 1-216-033-00 R2030 1-216-009-00		10K 220	5% 5%	1/10W 1/10W 1/10W		1-216-043-00 1-216-049-00		1K		1/10W 1/10W	
R2031 1-216-057-00 R2032 1-216-033-00	METAL GLAZE	22 2.2K 220	5% 5% 5% 5%	1/10W 1/10W	R2107	1-216-037-00 1-216-049-00	METAL GLAZE	330 1K	5% 5% 5%	1/10W 1/10W	
R2033 1-216-033-00	METAL GLAZE	220		1/10W	R2109	1-216-049-00 1-216-049-00	METAL GLAZE	1 K 1 K	5% 5%	1/10W 1/10W	
R2034 1-216-033-00 R2035 1-216-033-00	METAL GLAZE	220 220	5% 5% 5% 5%	1/10W 1/10W		1-216-061-00		3.3K	5%	1/10W	
R2036 1-216-081-00 R2037 1-216-065-00	METAL GLAZE METAL GLAZE	22K 4.7K	5%	1/10W 1/10W		1-216-073-00 1-216-061-00 1-216-085-00	METAL GLAZE	10K 3.3K 33K	5%%%%% 55%%%%%%%%%%%%%%%%%%%%%%%%%%%%%	1/10W 1/10W 1/10W	
R2038 1-216-025-00 R2039 1-216-097-00	METAL GLAZE METAL GLAZE	100 100K 10K	5% 5%	1/10₩ 1/10₩	R2115	1-216-049-00	METAL GLAZE			1/10W	
R2040 1-216-073-00 R2041 1-216-073-00	METAL GLAZE	10K 10K 3.9K	5% 5%	1/10W 1/10W		1-216-119-00 1-216-081-00	METAL GLAZE	820K 22K 15K 15K	5% 5%	1/10W 1/10W	
R2042 1-216-063-00 R2043 1-216-049-00				1/10W	R2119	1-216-077-00	METAL GLAZE	15K 15K	5% 5% 5%	1/10W 1/10W 1/10W	
R2043 1-216-049-00 R2044 1-216-057-00 R2045 1-216-049-00	METAL GLAZE	1K 2.2K 1K 10K 1K	5% 5%	1/10W 1/10W 1/10W	R2122	1-216-295-00 1-216-049-00	METAL GLAZE METAL GLAZE	0 1 K		1/10W	
R2046 1-216-073-00 R2047 1-216-049-00	METAL GLAZE	10K 1K	5% 5%	1/10W 1/10W	R2125 R2127	1-216-089-91 1-216-071-00	METAL GLAZE	47K 8.2K	5% 5%	1/10W 1/10W	
R2048 1-216-073-00	METAL GLAZE	10K	57	1/10W		1-216-069-00 1-216-055-00	METAL GLAZE METAL GLAZE	1K 47K 8.2K 6.8K 1.8K	5% 5%	1/10W 1/10W	
R2049 1-216-065-00 R2050 1-216-063-00 R2051 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 3.9K 1K 2.2K	5% 5%	1/10W 1/10W 1/10W	R2130 R2131	1-216-067-00 1-216-067-00	METAL GLAZE	5.6K	5% 5%	1/10W 1/10W	
R2052 1-216-057-00		2.2K	5%	1/10W 1/10W	R2132	1-216-676-11 1-216-025-00	METAL CHIP	11K 100	0.50%	1/10W 1/10W	
R2053 1-216-081-00 R2054 1-216-081-00	METAL GLAZE	22K 22K	5% 5%	1/10W 1/10W	R2134	1-216-053-00	METAL GLAZE	1.5K	5% 5%	1/10W	
R2055 1-216-081-00 R2056 1-216-295-00	METAL GLAZE	22K 0	5% 5% 5% 5%	1/10W 1/10W	R2136	1-216-041-00 1-216-073-00	METAL GLAZE	470 10K	5% 5%	1/10W 1/10W	
R2057 1-216-081-00 R2058 1-216-081-00		22K 22K		1/10W 1/10W	R2138 R2139	1-216-073-00 1-216-295-00 1-216-053-00	METAL GLAZE	10K 0 1.5K	5% 5%	1/10W 1/10W 1/10W	
	METAL GLAZE	22K 22K	5% 5% 5%	1/10W 1/10W	İ	1-216-049-00				1/10W	
R2061 1-216-081-00 R2062 1-216-295-00		22K 0	5% 5%	1/10W 1/10W	R2141 R2142	1-216-055-00 1-216-049-00	METAL GLAZE METAL GLAZE	1 K 1 . 8 K 1 K	5% 5% 5%	1/10W 1/10W	
R2063 1-216-025-00		100	5%	1/10W	R2143 R2144	1-216-049-00 1-216-025-00	METAL GLAZE METAL GLAZE	1 K 100	5% 5%	1/10W 1/10W	
R2064 1-216-025-00 R2074 1-216-033-00 R2075 1-216-049-00	METAL GLAZE	100 220 1K	5% 5%	1/10W 1/10W 1/10W	R2145 R2146	1-216-073-00	METAL GLAZE METAL GLAZE	10K 100 <b>k</b>	5% 5%	1/10W 1/10W	
R2076 1-216-081-00		22K	5%	1/10W	R2147	1-216-097-00 1-216-065-00 1-216-081-00	METAL GLAZE METAL GLAZE	4.7K 22K	5% 5% 5%	1/10W 1/10W 1/10W	
R2077 1-216-093-00 R2078 1-216-073-00		68K 10K	5% 5%	1/10W 1/10W	R2149	1-216-097-00	METAL GLAZE	100K	5%	1/ OW	
R2079 1-216-063-00 R2080 1-216-073-00	METAL GLAZE	3.9K 10K	5% 5% 5% 5% 5%	1/10W 1/10W	R2152	1-216-295-00	METAL GLAZE	0	5%	1/, 1	,
R2081 1-216-041-00 R2082 1-216-049-00		470 1K		1/10W 1/10W		<va< td=""><td>RIABLE RESISTO</td><td>R&gt;</td><td></td><td></td><td></td></va<>	RIABLE RESISTO	R>			
R2082 1-216-049-00 R2083 1-216-037-00 R2084 1-216-045-00	METAL GLAZE	330 680	5% 5% 5% 5%	1/10W 1/10W 1/10W			RES, ADJ, CA RES, ADJ, CA				
R2085 1-216-133-00 R2086 1-216-133-00	METAL GLAZE	3.3M 3.3M	5% 5%	1/10W 1/10W	RV2003	1-238-017-11	RES, ADJ, CA RES, ADJ, CA	RBON 22	:K		
R2087 1-216-085-00		33K	5%	1/10W		,mit:	MED				
R2088 1-216-107-00 R2089 1-216-065-00 R2090 1-216-065-00	METAL GLAZE	270K 4.7K 4.7K	5%	1/10W 1/10W 1/10W	MACHT		NER> TUNER (BTF-X	A401)	14.715.735		
R2091 1-216-049-00		1K	5% 5%	1/10W	10200	MI UJJ 104 21	TORKE (DIE A		<b>美国人工会区等</b>	40.04940.000	
R2093 1-216-097-00 R2094 1-216-039-00	METAL GLAZE	100K 390	5% 5%	1/10W 1/10W			YSTAL>	ann			
R2095 1-216-107-00 R2096 1-216-105-00		270K 220K	5% 5% 5%	1/10W 1/10W	X2001 X2002		OSCILLATOR, OSCILLATOR,				



Les composants identifiés par une trame et par une marque A sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.

REF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
*****	*********					C502	1-126-182-11 1-130-487-00	ELECT	0.47MF 0.022MF	20% 5%	50V 50V
	*A-1297-104-A			BR35(U/	(C))	C504	1-136-153-00	FILM	0.01MF	5%	50V
	*A-1297-105-A	************** A BOARD, COMP	LETE (KP-46X	BR35/61	XBR38)	C507 C508 C509	1-106-383-00 1-102-973-00 1-102-030-00 1-136-565-11	CERAMIC CERAMIC	0.047MF 100PF 330PF 0.015MF	5% 10% 3%	200V 50V 500V 1.4KV
	4-365-216-00 4-382-854-11	SPACER, MICA SCREW (M3X10)	, P, SW (+)			1	1-136-598-11 1-136-153-00 1-124-477-11	FILM			200 <b>V</b> 50 <b>V</b> 16 <b>V</b>
	<coni< td=""><td>NECTOR&gt;</td><td></td><td></td><td></td><td>C522 C523</td><td>1-123-024-21 1-106-383-00</td><td>ELECT MYLAR</td><td>33MF 0.047MF</td><td>20%</td><td>160V 200V</td></coni<>	NECTOR>				C522 C523	1-123-024-21 1-106-383-00	ELECT MYLAR	33MF 0.047MF	20%	160V 200V
A-1 A-2 A-3 A-4 A-5	*1-564-514-11 *1-564-512-11 *1-564-507-11 *1-564-508-11 *1-564-511-51	PLUG, CONNECT PLUG, CONNECT PLUG, CONNECT PLUG, CONNECT	OR 9P OR 4P OR 5P OR 8P			C528	1-124-662-11 1-124-011-00 1-124-011-00 1-124-662-11 1-124-662-11	ELECT ELECT	220MF 220MF 220MF 220MF 220MF	20% 20% 20% 20% 20%	50V 16V 16V 50V 50V
A-11 A-12	*1-564-505-11 *1-564-505-11 *1-564-511-81 *1-564-511-71 1-573-979-21	PLUG, CONNECT PLUG, CONNECT PLUG, CONNECT PLUG, CONNECT CONNECTOR, BO	OR 2P OR 8P OR 8P ARD TO BOARD	) 11P		C539 C542 C543 C544 C545	1-136-153-00 1-136-153-00 1-136-153-00	ELECT FILM FILM FILM FILM	10MF 0.01MF 0.01MF 0.01MF 0.01MF	20% 5% 5% 5%	50V 50V 50V 50V 50V
A-15 A-16 A-17	1-573-979-21 *1-564-513-11 *1-564-508-11 *1-564-508-11 *1-564-508-11	CONNECTOR, BO PLUG, CUNNECT PLUG, CONNECT PLUG, CONNECT PLUG, CONNECT	ARD TO BOARD OR 10P OR 5P OR 5P OR 5P	) 11P		C569 C1401 C1402 C1405 C1406	1-126-355-11 1-124-910-11 1-126-157-11 1-124-910-11 1-126-101-11	ELECT ELECT ELECT	33MF 47MF 10MF 47MF 100MF	20% 20% 20% 20% 20%	160V 50V 16V 50V 16V
A-18 A-19 A-20 A-21 A-22	1-508-786-00 1-573-979-21	PIN, CONNECTO PIN, CONNECTO PIN, CONNECTO PIN, CONNECTO CONNECTOR, BO	R (PC BOARD) R (PC BOARD) R (PC BOARD) R (5MM PITCH ARD TO BOARD	) 5P ) 5P ) 5P H) 2P ) 11P		C1407 C1408 C1409 C1413 C1424	1-126-057-11 1-136-165-00 1-136-165-00 1-124-234-00 1-126-057-11	FILM FILM ELECT	2200MF 0.1MF 0.1MF 22MF 2200MF	20% 5% 5% 20% 20%	50V 50V 50V 16V 50V
A-25 A-27 A-28 A-38 A-56	*1-564-506-11 1-573-297-21 *1-564-508-11 1-564-505-11 *1-564-508-11	PLUG, CONNECT CONNECTOR, BO PLUG, CONNECT PLUG, CONNECT PLUG, CONNECT	OR 2P OR 5P	18P		C1429 C1430	1-126-057-11 1-126-157-11 1-126-101-11 1-126-101-11 1-124-916-11	ELECT ELECT ELECT	2200MF 10MF 100MF 100MF 22MF	20% 20% 20% 20% 20%	50V 16V 16V 16V 50V
P3-1	*1-573-960-11	CONNECTOR (FE	MALE) 50P			C1435	1-126-233-11	ELECT	22MF	20%	25 <b>V</b>
C201	1-124-910-11	ACITOR> ELECT	47MF	20%	50 <b>Y</b>	C1601 C1603	1-126-336-11 1-130-483-00 1-136-153-00 1-124-907-11	MYLAR FILM	220MF 0.01MF 0.01MF 10MF	20% 5% 5% 20%	25V 50V 50V 50V
C202 C203 C204 C205	1-124-903-11 1-130-495-00 1-124-477-11 1-124-557-11	ELECT MYLAR ELECT ELECT	1MF 0.1MF 47MF 1000MF	20% 5% 20% 20%	50V 50V 16V 25V	C1609	1-136-153-00 1-136-153-00 1-124-916-11	FILM	0.01MF 0.01MF 22MF	5% 5% 20%	50V 50V 50V
C206 C207	1-126-101-11	ELECT ELECT	100MF 33MF	20% 20%	16V 16V		<d1< td=""><td>ODE&gt;</td><td></td><td></td><td></td></d1<>	ODE>			
C207 C210 C212 C213	1-102-121-00 1-126-803-11 1-126-103-11	CERAMIC ELECT ELECT	0.0022MF 47MF 470MF	10% 20% 20%	50V 16V 16V	D201 D202 D203	8-719-121-24 8-719-121-24 8-719-911-19	DIODE RD9.11 DIODE RD9.11	ESL		
C214 C215 C216	1-126-101-11 1-126-803-11 1-126-101-11	ELECT ELECT ELECT	100MF 47MF 100MF	20% 20% 20%	16V 50V 16V	D204 D205	8-719-911-19 8-719-110-36	DIODE 18811	9		
C217 C218	1-126-803-11 1-126-103-11	ELECT ELECT	47MF 470MF	20% 20%	25V 16V	D206 D207 D208	8-719-911-19 8-719-911-19 8-719-911-19	DIODE 18811	9		
C219 C220 C223	1-124-443-00 1-126-803-11 1-126-803-11	ELECT ELECT ELECT	100MF 47MF 47MF	20% 20% 20%	10V 25V 25V	D209 D211	8-719-911-19 8-719-110-36	DIODE 18811 DIODE RD13E	9 SB2		
C224 C225	1-124-261-00 1-124-120-11	ELECT	10MF 220MF	20% 20%	50V 16V	D213 D214 D215	8-719-110-78 8-719-911-19 8-719-911-19	DIODE 18811	9		
C226 C227 C299	1-124-120-11 1-124-621-11 1-126-101-11	ELECT	220MF 3300MF 100MF	20% 20% 20%	16V 6.3V 16V	D216 D217	8-719-911-19 8-719-911-19	DIODE 18811	9		

The components identified by shading and mark A are critical for safety.
Replace only with part number specified.

Les composants identifiés par une trame et par une marque A sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
D219 D220 D221	8-719-911-19 8-719-510-48 8-719-911-19	DIODE 1SS119 DIODE D1N2OR		Q502	8-729-014-88	TRANSISTOR 250 SCREW (M3X10)	C4891-CA	Q502	
D222 D223	8-719-911-19 8-719-911-19	DIODE 1SS119 DIODE 1SS119 DIODE FRCOR OF		Q504 Q505 Q506	8-729-201-32 8-729-201-32	TRANSISTOR 2SO TRANSISTOR 2SO TRANSISTOR 2SO TRANSISTOR 2SO	A1013-0 A1013-0		
D501 D502 D503 D504	8-719-971-20	DIODE ERC38-06 DIODE ERC38-06 DIODE ERC38-06 DIODE RU-1C DIODE RD5.6ESB1		Q508	8-729-204-16	TRANSISTOR 25/	A1301-0	Q508	
D505 D506 D507	8-719-900-63 8-719-900-63 8-719-970-89	DIODE RU-1C DIODE RD5.6ESB1 DIODE VO6C (KP-46XBR35/61XBR38)  DIODE VO6C (KP-46XBR35/61XBR38) DIODE DD5OR DIODE 1SS119 DIODE RD3.9ESB1 DIODE 1SS119		Q509 Q510 Q511 Q512	8-729-119-78 8-729-119-78 8-729-119-76 8-729-119-78	TRANSISTOR 2SO TRANSISTOR 2SO TRANSISTOR 2SO TRANSISTOR 2SO	C2785-HFE C2785-HFE A1175-HFE C2785-HFE		
D509 D510 D511	8-719-911-19 8-719-109-71 8-719-911-19	DIODE 1SS119 DIODE RD3.9ESB1 DIODE 1SS119		Q1401 Q1402	8-729-119-78 8-729-900-63 8-729-119-78	TRANSISTOR 250 TRANSISTOR DTATEMENT OF TRANSISTOR 250 TRANSISTOR 250	C2785-HFE A124ES C2785-HFF		
D512 D513 D514 D515	8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19	DIODE 1SS119		01601	8-729-119-78	TRANSISTOR 2STRANSISTOR 2STRANS	C2785-HFE		
D1401 D1402	8-719-911-19 8-719-911-19	DIODE 155119 DIODE 155119	.*	Q1604 Q1605	8-729-119-76 8-729-119-78	TRANSISTOR 2S. TRANSISTOR 2S. TRANSISTOR 2S.	A1175-HFE C2785-HFE		
D1405	8-719-911-19 8-719-110-88 8-719-110-88 8-719-911-19	ATONE TOOTTA		Q1620		TRANSISTOR 25 TRANSISTOR 25	A1175-HFE		
D1407	8-719-110-88	DIODE RD39ESB2				ISTOR>			_
D1410	8-719-911-19 8-719-110-88 8-719-911-19 8-719-911-19	DIODE 188119		R201 R202 R203 R204 R214	1-247-807-31 1-247-807-31 1-249-425-11 1-249-441-11 1-249-429-11	CARBON CARBON CARBON CARBON CARBON	100 5% 100 5% 4.7K 5% 100K 5% 10K 5%	1/4W 1/4W 1/4W 1/4W 1/4W	F
D1608	8-719-911-19	DIODE 1SS119							
IC201	<1C> 8-749-920-58 8-759-231-53			R215 R216 R219 R221 R222	1-249-437-11 1-249-377-11 1-249-426-11 1-249-409-11 1-249-436-11	CARBON CARBON CARBON	47K 5% 0.47 5% 5.6K 5% 220 5% 39K 5%	1/4W 1/4W 1/4W 1/4W 1/4W	F
I C205	8-759-231-53 8-759-144-82 8-759-231-58 8-749-920-58	IC TA7805S IC UPC2405HF IC TA7812S IC SI-3090CA		R223 R224 R225 R229	1-249-434-11 1-249-409-11 1-249-417-11 4 1-215-921-71	CARBON CARBON CARBON METAL OXIDE METAL OXIDE	27K 5% 220 5% 1K 5%	1/4W 1/4W 1/4W	See The Secretary Secretary
IC1401	8-752-057-18 8-759-246-70 8-752-058-71	IC TA8216H				METAL OXIDE CARBON METAL OXIDE		3W	F Table 10 F
	<jac< td=""><td>K&gt;</td><td></td><td>R233 R234</td><td>1-249-409-11 1-249-409-11</td><td>CARBON CARBON</td><td>220 5% 220 5%</td><td>1/4W 1/4W</td><td></td></jac<>	K>		R233 R234	1-249-409-11 1-249-409-11	CARBON CARBON	220 5% 220 5%	1/4W 1/4W	
J202	1-507-562-00			R235	1-249-409-11	CARBON	220 5%	1/4W	
J203	1-507-562-00 <col< td=""><td>JACK</td><td></td><td>R236 R237 R238</td><td>1-249-409-11 1-249-409-11 1-249-409-11</td><td>CARBON CARBON</td><td>220 5% 220 5% 220 5% 220 5%</td><td>1/4W 1/4W 1/4W 1/4W</td><td></td></col<>	JACK		R236 R237 R238	1-249-409-11 1-249-409-11 1-249-409-11	CARBON CARBON	220 5% 220 5% 220 5% 220 5%	1/4W 1/4W 1/4W 1/4W	
1 201				R239 R240	1-249-409-11 A 1-216-469-71	CARBON METAL OXIDE	220 5% 12 5%	3₩	<b>F</b>
L201 L205 L206 L212 L501	1-410-645-31 1-408-416-00 1-410-312-11	INDUCTOR 470UH INDUCTOR 100UH INDUCTOR 39UH INDUCTOR 0.22UH COIL, HORIZONTAL LINEARITY	on an included on	R242 R243 R244	1-249-401-11 \$\Lambda\$ 1-216-469-71 \$\Lambda\$ 1-217-288-11 \$\Lambda\$ 1-217-296-11	WIREWOUND WIREWOUND		5₩ 5₩	
L502 L515	1-459-313-00 1-410-645-31	COIL WITH CORE (HWC) INDUCTOR 100UH		R296 R501 R502	1-249-417-11 1-247-895-00 1-249-377-11	CARBON CARBON CARBON	1K 5% 470K 5% 0.47 5%	1/4W 1/4W 1/4W	F
	<tra< td=""><td>NSISTOR&gt;</td><td></td><td>R503 R504 R505</td><td>1-249-377-11 1-249-417-11 1-249-423-11</td><td>CARBON CARBON CARBON</td><td>0.47 5% 1K 5% 3.3K 5%</td><td>1/4W 1/4W 1/4W</td><td>F</td></tra<>	NSISTOR>		R503 R504 R505	1-249-377-11 1-249-417-11 1-249-423-11	CARBON CARBON CARBON	0.47 5% 1K 5% 3.3K 5%	1/4W 1/4W 1/4W	F
Q201 Q202 Q203 Q501	8-729-119-78 8-729-119-78 8-729-119-76 8-729-119-80	TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SA1175-HFE TRANSISTOR 2SC2688-LK	, <b>i</b>	R506 R507	▲ 1-215-922-91 1-249-429-11	METAL OXIDE	6.8K 5%	3W 1/4W	F F

A E1

Les composants identifiés par une trame et par une marque 
A sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.

REF.NO. PART NO. DESCRIPTION	REMA	K REF.NO. PART NO.	DESCRIPTION	REMARK
R509 A 1-216-478-91 METAL OXIDE R511 1-247-811-31 CARBON R512 1-249-421-11 CARBON R513 1-249-417-11 CARBON	150 5% 1/4W 2.2K 5% 1/4W F 1K 5% 1/4W	R1601 1-249-423-11 R1602 1-249-417-11 R1603 1-249-423-11	CARBON 3.3K 5% CARBON 1K 5% CARBON 3.3K 5%	1/4W 1/4W 1/4W 1/4W
R514 A 1-216-441-91 METAL OXIDE R515 1-249-432-11 CARBON R516 1-249-417-11 CARBON R517 1-249-427-11 CARBON	18K 5% 1/4W F 1K 5% 1/4W 6.8K 5% 1/4W F	R1604 1-247-807-31   R1605 1-247-807-31   R1606 1-247-807-31   R1607 1-249-415-11   R1608 1-249-415-11	CARBON 100 5% CARBON 680 5%	1/4W 1/4W 1/4W 1/4W 1/4W
R518 1-249-422-11 CARBON R519 1-249-417-11 CARBON R520 A1-215-925-91 METAL OXIDE R521 A1-215-925-91 METAL OXIDE R522 1-249-421-11 CARBON	1K 5% 1/4W F 22K 5% 3W F 22K 5% 3W F	R1609 1-249-415-11 R1610 1-247-807-31 R1611 1-247-807-31 R1612 1-247-807-31 R1613 1-249-423-11	CARBON 100 5% CARBON 100 5% CARBON 100 5%	1/4W 1/4W 1/4W 1/4W 1/4W
R523 1-249-434-11 CARBON R524 1-249-434-11 CARBON R525 A1-215-922-91 METAL OXIDE R526 1-249-417-11 CARBON	27K 5% 1/4W 27K 5% 1/4W 6.8K 5% 3W F 1K 5% 1/4W	R1624 1-249-424-11 R1627 1-249-429-11	CARBON         3.3K         5%           CARBON         3.9K         5%           CARBON         10K         5%	1/4W 1/4W 1/4W 1/4W 1/4W
R529 & 1-216-447-91 METAL OXIDE R530 1-249-431-11 CARBON R531 1-249-431-11 CARBON R532 1-249-385-11 CARBON	27 5% 2W F 15K 5% 1/4W 15K 5% 1/4W 2.2 5% 1/4W F	R1631 1-249-433-11 R1656 1-249-397-11 R1657 1-249-397-11 R1658 1-249-397-11	CARBON 22K 5% CARBON 22 5% CARBON 22 5%	1/4W 1/4W 1/4W 1/4W
R533 1-247-807-31 CARBON R534 1-247-807-31 CARBON R535 1-247-807-31 CARBON R536 A1-217-316-11 WIREWOUND	100 5% 1/4W 100 5% 1/4W 100 5% 1/4W 330 10% 5W F (KP-46XBR35/61XBR3	8) T501 A 1-439-545-11 T502 A 1-437-078-11	ANSFORMER> TRANSFORMER, FERRITE TRANSFORMER, HORIZONTAL	DRIVE
R537	(RP-46XBR35/61XBR3 2.2 5% 1/4W F 2.2 5% 1/4W F 220 5% 1/4W	8) <⊤U ↑U101 & 1-693-102-21	NER> TUNER (BTF-XA401)	
R560 1-249-409-11 CARBON R563 1-249-429-11 CARBON R564 1-249-429-11 CARBON R565 1-249-427-11 CARBON R566 1-249-427-11 CARBON	220 5% 1/4W 10K 5% 1/4W 10K 5% 1/4W 6.8K 5% 1/4W 6.8K 5% 1/4W		E1 BOARD, COMPLETE	********
R567 1-249-427-11 CARBON R568 1-249-427-11 CARBON R569 1-249-426-11 CARBON	6.8K 5% 1/4W 6.8K 5% 1/4W 5.6K 5% 1/4W 100K 5% 1/4W	į	APACITOR> CERAMIC CHIP 0.0012MF	10% 50V
R570 1-249-441-11 CARBON R571 1-249-429-11 CARBON R572 1-249-429-11 CARBON	10K 5% 1/4W 10K 5% 1/4W	C303	ELECT 10MF CERAMIC CHIP 0.01MF CERAMIC CHIP 100PF CERAMIC CHIP 100PF	20% 16V 10% 50V 5% 50V 5% 50V
R574 1-249-417-11 CARBON R579 1-249-417-11 CARBON R1401 1-215-445-00 METAL R1402 1-215-445-00 METAL	1K 5% 1/4W 10K 1% 1/4W 10K 1% 1/4W	C309 1-164-505-11 C310 1-163-109-00 C314 1-124-667-11 C315 1-164-505-11	OCERAMIC CHIP 47PF DELECT 10MF CERAMIC CHIP 2.2MF	16V 5% 50V 20% 16V 16V 20% 16V
R1403 1-215-445-00 METAL R1404 1-215-445-00 METAL R1405 1-249-385-11 CARBON R1406 1-249-385-11 CARBON R1409 1-249-433-11 CARBON	10K 1% 1/4W 10K 1% 1/4W 2.2 5% 1/4W 2.2 5% 1/4W 22K 5% 1/4W	C319 1-126-157-11 C320 1-124-465-00 C321 1-163-125-00 C322 1-163-003-11 C323 1-163-099-00	O ELECT 0.47MF O CERAMIC CHIP 220PF O CERAMIC CHIP 330PF	20% 50V 5% 50V 10% 50V 5% 50V
R1410 1-249-433-11 CARBON R1411 1-249-437-11 CARBON R1427 A 1-215-865-91 METAL OXIDE R1428 A 1-215-865-91 METAL OXIDE R1431 1-247-807-31 CARBON	22K 5% 1/4W 47K 5% 1/4W 220 5% 1W F 220 5% 1W F 100 5% 1/4W	C324 1-124-234-00 C325 1-104-563-11	D ELECT 22MF  1 FILM CHIP 0.1MF 1 FILM CHIP 0.1MF 1 FILM CHIP 0.1MF	20% 16V 5% 16V 5% 16V 5% 16V 20% 16V
R1433 1-249-425-11 CARBON R1434 1-249-423-11 CARBON R1439 1-247-883-00 CARBON R1440 1-249-417-11 CARBON R1442 1-249-398-11 CARBON R1443 1-249-398-11 CARBON	4.7K 5% 1/4W 3.3K 5% 1/4W 150K 5% 1/4W 1K 5% 1/4W 27 5% 1/4W 27 5% 1/4W	C329 1-126-157-11 C330 1-126-157-11 C331 1-126-301-11 C332 1-124-584-00 C333 1-163-037-1 C334 1-137-491-11	I ELECT IOMF  1 ELECT IOMF  1 ELECT IMF  0 ELECT IOOMF  1 CERAMIC CHIP 0.022MF	20% 16V 20% 16V 20% 50V 20% 10V 10% 25V 5% 25V

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REF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
C335 C336 C337 C338 C339	1-136-169-00 1-126-301-11 1-126-301-11 1-124-584-00 1-126-801-11	FILM ELECT ELECT ELECT ELECT	0.22MF 1MF 1MF 100MF 1MF	5% 20% 20% 20% 20%	50V 50V 50V 10V 50V	DL302	1-415-817-11				
C340 C341 C342 C343 C344	1-124-465-00 1-124-589-11	CERAMIC CHIP ELECT ELECT ELECT CERAMIC CHIP	10MF 0.47MF 47MF	10% 20% 20% 20% 10%	50V 16V 50V 16V 50V	E1-25	*1-564-523-11 *1-564-521-11 *1-564-522-11 1-573-965-21	PLUG, CONNECTO PLUG, CONNECTO	3R 6P UR 7P	50P	
C346 C348 C350 C351 C352	1-164-232-11 1-163-117-00 1-126-301-11 1-163-002-11 1-164-489-11	CERAMIC CHIP	100PF 1MF 270PF	10% 5% 20% 10% 10%	50V 50V 50V 50V 16V	1C301 1C302	<1C> 8-752-058-68 8-752-057-68	IC CXA1315M IC CXA1464AS			
C353 C355 C356 C357 C360	1-126-163-11 1-124-465-00 1-163-017-00 1-163-117-00 1-137-491-11	CERAMIC CHIP CERAMIC CHIP	0.0047MF	20% 20% 10% 5%	50V 50V 50V 50V 25V	L301 L307 L308	<011 1-410-064-11 1-410-944-31 1-410-946-31	INDUCTOR INDUCTOR CHIP	15UH		
C361 C362 C363 C364	1-126-301-11	CERAMIC CHIP CERAMIC CHIP ELECT	0.01MF 1MF	20% 10% 10% 20%	50V 50V 50V 50V		<tra< td=""><td>NSISTOR&gt;</td><td></td><td></td><td></td></tra<>	NSISTOR>			
C365 C366 C367 C368 C369	1-124-257-00 1-126-157-11	CERAMIC CHIP ELECT ELECT ELECT CERAMIC CHIP	2.2MF 10MF	10% 20% 20% 20% 10%	25V 50V 16V 16V 50V	Q301 Q302 Q303 Q304 Q305	8-729-925-79	TRANSISTOR IM TRANSISTOR IM TRANSISTOR 2S TRANSISTOR IM TRANSISTOR IM	X3 C1623-L5L6 Z1		
C370 C371 C372 C373	1-164-232-11 1-126-803-11 1-124-589-11 1-164-232-11	CERAMIC CHIP ELECT ELECT CERAMIC CHIP	47MF 47MF 0.01MF	20% 20% 10%	50V 16V 16V 50V	Q306 Q307 Q309 Q310 Q311	8-729-120-28 8-729-903-10 8-729-120-28 8-729-120-28 8-729-403-27	TRANSISTOR 2S TRANSISTOR FM TRANSISTUR 2S TRANSISTOR 2S TRANSISTOR XN	₩1 C1623-L5L6 C1623-L5L6		
C378 C379 C380 C381 C382	1-163-137-00 1-163-101-00 1-164-004-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.01MF	5% 10% 5% 5% 10% 10% 5%	50V 50V 50V 50V 25V	Q312 Q314 Q315 Q316 Q317	8-729-403-27 8-729-120-28 8-729-120-28	TRANSISTOR 2S TRANSISTOR XN TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S	4401 C1623-L5L6 C1623-L5L6		
C383 C384	1-164-004-11 1-163-095-00 <dio< td=""><td>CERAMIC CHIP CERAMIC CHIP DE&gt;</td><td>0.1MF 12PF</td><td>10% 5%</td><td>25V 50V</td><td>Q321 Q322 Q323 Q324 Q325</td><td>8-729-216-22 8-729-120-28 8-729-216-22</td><td>TRANSISTOR IM TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S</td><td>A1162-G C1623-L5L6 A1162-G</td><td></td><td></td></dio<>	CERAMIC CHIP CERAMIC CHIP DE>	0.1MF 12PF	10% 5%	25V 50V	Q321 Q322 Q323 Q324 Q325	8-729-216-22 8-729-120-28 8-729-216-22	TRANSISTOR IM TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S	A1162-G C1623-L5L6 A1162-G		
D301 D302 D303 D304 D305	8-719-404-46 8-719-404-46 8-719-404-46 8-719-404-46 8-719-404-46	DIODE MA110				Q326 Q327 Q328 Q333	8-729-120-28 8-729-120-28 8-729-120-28 8-729-925-79	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR IM	C1623-L5L6 C1623-L5L6 C1623-L5L6 IX3		
D306 D307 D310 D312 D313	8-719-158-15 8-719-404-46 8-719-158-15 8-719-404-46 8-719-404-46	DIODE RD5.6S DIODE MA110 DIODE RD5.6S DIODE MA110 DIODE MA110				Q334 Q335 Q340 Q342 Q344	8-729-925-79	TRANSISTOR 2S TRANSISTOR IM TRANSISTOR 2S TRANSISTOR IM TRANSISTOR 2S	Z1 C1623-L5L6 IX3		
D314 D315	8-719-404-46 8-719-404-46	DIODE MA110 DIODE MA110			-		<res< td=""><td>ISTOR&gt;</td><td></td><td></td><td></td></res<>	ISTOR>			
D316 D317 D318 D319	8-719-404-46 8-719-404-46 8-719-404-46 8-719-404-46	DIODE MA110				R301 R302 R303 R304	1-216-025-00 1-216-057-00 1-216-079-00 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 5% 2.2K 5% 18K 5% 22K 5% 6.8K 5%	1/10W 1/10W 1/10W 1/10W	
D320 D321	8-719-404-46 8-719-400-94	DIODE MA110				R305	1-216-069-00	METAL GLAZE		1/10W 1/10W	
						R307 R308 R309 R310	1-216-089-91 1-216-037-00 1-216-073-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE	22K 5% 47K 5% 330 5% 10K 5% 4.7K 5%	1/10W 1/10W 1/10W 1/10W	

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REF.	NO. 1	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
R31 R31 R31 R31	13 14 16	1-216-061-00 1-216-035-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	560 270 3.3K 270 1M	5% 1 5% 1 5% 1	/10W /10W /10W /10W /10W		1	1-216-049-00 1-216-051-00 1-216-109-00 1-216-071-00 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE	1 K 1 . 2 K 3 3 0 K 8 . 2 K 2 2 K	5 % % % % % % % % % % % % % % % % % % %	1/10W 1/10W 1/10W 1/10W 1/10W	
R32 R32 R32 R33 R33	25 26 31	1-216-057-00 1-216-017-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL CHIP	220 2.2K 47 1.8K	5% 1 5% 1 5% 1 0.50% 1	/10W /10W /10W /10W /10W		R398 R399 R1301 R1302	1-216-081-00 1-216-081-00 1-216-077-00 1-216-049-00 1-216-045-00 1-216-085-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	22K 15K 1K 680 33K	55 55555555555555555555555555555555555	1/10W 1/10W 1/10W 1/10W 1/10W	
R33 R33 R33 R34	36 38 39 40	1-216-051-00 1-216-047-00 1-216-043-00 1-216-047-00 1-216-651-11	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL CHIP	820 1K	5% 1 0.50% 1			R1304 R1305 R1306 R1307 R1308	1-216-081-00 1-216-025-00 1-216-057-00 1-216-073-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	22K 100 2.2K 10K 4.7K	5% %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%	1/10W 1/10W 1/10W 1/10W 1/10W	
R34 R34 R34 R34	43 44 45 46	1-216-043-00 1-216-077-00 1-216-081-00 1-216-292-11 1-216-081-00 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	560 15K 22K 8.2M 22K		1/10W 1/10W 1/10W 1/8W 1/10W			1-216-025-00 1-216-045-00 1-216-049-00 1-216-073-00 1-216-081-00 1-216-065-00		100 680 1K 10K 22K 4.7K	555555555555555555555555555555555555555	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W	
R3/ R3/ R3/ R3/	48 49 50 51	1 216 061 00 1-216-049-00 1-216-295-00 1-216-089-91 1-216-674-11 1-216-011-00	METAL GLAZE METAL GLAZE METAL GLAZE	1K 0 47K 9.1K	5% 1 5% 1 5% 1 0.50% 1	L/10W L/10W L/10W		R1315 R1316 R1317 R1318	1-216-049-00 1-216-081-00 1-216-073-00 1-216-065-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 22K 10K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R3: R3: R3: R3:	53 54 55 56 57	1-216-001-00 1-216-049-00 1-216-001-00 1-216-001-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	10 1K 10 10	5% 1 5% 1 5% 1	1/10W 1/10W 1/10W 1/10W 1/10W		R1321 R1322 R1323	1-216-063-00 1-216-081-00 1-216-061-00 1-216-089-91 1-216-045-00	METAL GLAZE METAL GLAZE METAL GLAZE	22K 3.3K 47K	5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R3 R3	59 60 61 62	1-216-049-00 1-216-049-00 1-216-119-00 1-216-025-00 1-216-079-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 1K 1K 820K 100		1/10W 1/10W 1/10W 1/10W 1/10W	·	R1326 R1327 R1328	1-216-025-00 1-216-073-00 1-216-033-00 1-216-033-00 1-216-077-00	) METAL GLAZE ) METAL GLAZE ) METAL GLAZE	10K 220 220	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R3	64 65 66 67	1-216-045-00 1-216-017-00 1-216-001-00 1-216-045-00	METAL GLAZE METAL GLAZE METAL GLAZE	680	5% 5% 5%	1/10W		R1330 R1331 R1333 R1342 R1346	1-216-081-00 1-216-081-00 1-216-129-00 1-216-033-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	22K 2.2M 220	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R3 R3 R3	369 370 371 372	1-216-033-00 1-216-033-00 1-216-033-00 1-216-031-00	METAL GLAZE	180	5% 5% 5%	1/10W 1/10W		R1347 R1348 R1349 R1350	1-216-049-00 1-216-049-00 1-216-073-00	) METAL GLAZE ) METAL GLAZE ) METAL GLAZE ) METAL GLAZE	10K 56K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	1
R3 R3 R3	373 374 375 376	1-216-671-11 1-216-037-00 1-216-037-00 1-216-037-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	6.8K 330 330 330 220	5% 5%	1/10W 1/10W 1/10W 1/10W		R1353 R1354 R1355 R1356 R1357	1-216-081-0 1-216-017-0	O METAL GLAZE O METAL GLAZE O METAL GLAZE	22K 47 2.2K	5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R3 R3 R3	378 379 380 381	1-216-033-00 1-216-033-00 1-216-033-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 220 220 220 220 220	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R1358 R1362 R1363 R1364 R1373	1-216-105-0 1-216-041-0 1-216-053-0	O METAL GLAZI O METAL GLAZI O METAL GLAZI	220K 470 1.5K	5%	1/10W 1/10W 1/10W 1/10W 1/10W	}
RS RS RS	383 384 385 386 387	1-216-653-11 1-216-041-00 1-216-081-00 1-216-687-11 1-216-033-00	METAL GLAZE METAL GLAZE METAL CHIP METAL GLAZE	470 22K 33K 220	5% 5% 0.50%	1/10W 1/10W 1/10W 1/10W	] } }	R1374 R1379 R1380 R1381 R1382	) 1-216-079-0 ) 1-216-075-0   1-216-041-0	O METAL GLAZI O METAL GLAZI O METAL GLAZI	E 18K E 12K E 470	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	)   
R	388 389 390	1-216-033-00 1-216-081-00 1-216-033-00	METAL GLAZE	220 22K 220	5% 5% 5% 5%	1/10W 1/10W 1/10W	l	R1383	3 1-216-077-0 1 1-216-049-0	O METAL GLAZI O METAL GLAZI	E 15K E 1K	5% 5%	1/10W 1/10W	

REF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
R1386 R1387 R1388	1-216-037-00 1-216-037-00 1-216-045-00 1-216-001-00 1-216-097-00	METAL GLAZE METAL GLAZE METAL GLAZE	330 5 330 5 680 5 10 5 100K 5	% 1/10W % 1/10W		C2354 C2357	1-164-232-11 1-164-232-11 1-126-301-11 1-163-109-00	CERAMIC CHIP CERAMIC CHIP ELECT CERAMIC CHIP	0.01MF 1MF	10% 10% 20% 5%	50V 50V 50V 50V
R1391 R1392 R1394 R1395	1-216-097-00 1-216-097-00 1-216-081-00 1-216-081-00 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100K 5 100K 5 22K 5 22K 5 22K 5	7 1/10W 7 1/10W 7 1/10W 7 1/10W		D2307 D2308 D2309	<pre><d10 8-719-404-46="" 8-719-404-46<="" 8-719-948-98="" pre=""></d10></pre>	DIODE MAIIO DIODE FMNI DIODE FMNI DIODE MAIIO			
R1399 R5301 R5302	1-216-125-00 1-216-065-00 1-216-057-00 1-216-073-00 1-216-073-00		1.5M 5 4.7K 5 2.2K 5 10K 5	7 1/10W 7 1/10W 7 1/10W 7 1/10W 7 1/10W		D2313 D2314	8-719-404-46 8-719-404-46 8-713-300-57 8-719-404-46	DIODE MA110 DIODE 1733			
	1-216-085-00 1-216-085-00	METAL GLAZE METAL GLAZE	33K 5	7 1/10W 7 1/10W			<c01< td=""><td>INECTOR&gt;</td><td></td><td></td><td></td></c01<>	INECTOR>			
X301		STAL> OSCILLATOR, CI	RYSTAL			1 60 06	*1-564-521-11 *1-564-522-11 *1-564-518-11 1-573-965-21	DITIC CONNEC	ቸበם ማከ	50P	
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		E2 BOARD, COMI				1 C2303 1 C2304 1 C2306	8-759-066-52 8-759-925-75 8-752-037-15 8-759-011-65 8-752-058-68	IC PCA8510T/ IC SN74HC05A IC CXA1387S IC MC74HC405	NS		
C2302 C2303 C2310 C2313 C2314	1-163-009-11 1-164-232-11 1-163-105-00 1-163-133-00 1-164-232-11	CERAMIC CHIP ( CERAMIC CHIP : CERAMIC CHIP : CERAMIC CHIP ( CERAMIC CHIP )	0.001MF 0.01MF 33PF 470PF 0.01MF	10% 10% 5% 5% 10%	50V 50V 50V 50V 50V		<00 1-408-414-00	IL>	27UH		
C2315 C2316 C2317 C2318 C2320	1-126-157-11 1-126-157-11 1-126-157-11 1-164-232-11 1-124-589-11	ELECT ELECT CERAMIC CHIP (	10MF 10MF 10MF 0.01MF 47MF	20% 20% 20% 10% 20%	16V 16V 16V 50V 16V	Q2303	8-729-903-10 8-729-403-27	TRANSISTOR X	N4401		
C2321 C2322 C2323 C2324	1-124-234-00 1-124-234-00 1-124-234-00	ELECT ELECT	22MF 22MF 22MF	20% 20% 20%	50V 16V 16V 16V	Q2305 Q2306	8-729-925-79 8-729-903-10 8-729-403-27 8-729-403-27	TRANSISTOR X	'MW1 (N4401 (N4401		
C2325 C2326 C2327 C2328 C2329	1-164-232-11 1-124-589-11 1-164-505-11 1-164-232-11 1-164-232-11	CERAMIC CHIP ELECT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	47MF 2.2MF 0.01MF	10% 20% 10% 10%	50V 16V 16V 50V 50V	Q2310	8-729-403-27 8-729-903-10 8-729-403-27 8-729-903-10 8-729-403-27	TRANSISTOR X	(N4401 MW1		
C2331 C2332 C2333 C2334	1-104-232-11 1-164-232-11 1-124-234-00 1-124-232-11	CERAMIC CHIP	0.01MF 22MF 22MF	10% 10% 20% 20% 10%	16V 16V 50V	Q2313 Q2314 Q2315 Q2317	8-729-903-10	TRANSISTOR F TRANSISTOR X TRANSISTOR F	7MW1 (N4401 7MW1		
C2335 C2336 C2337 C2338	1-164-232-11 1-126-163-11 1-164-232-11 1-163-038-00	CERAMIC CHIP	0.01MF 4.7MF 0.01MF	10% 20% 10%	50V 16V 50V 25V	Q2318 Q2319 Q2320 Q2321 Q2322	8-729-216-22 8-729-216-22 8-729-120-28 8-729-120-28 8-729-120-28	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2	2SA1162-G 2SC1623-L5L6 2SC1623-L5L6		
C2340 C2345 C2346	1-163-251-11 1-164-505-11 1-164-232-11 1-163-367-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	100PF 2.2MF 0.01MF	5% 10% 5%	50V 16V 50V	Q2324 Q2326 Q2327 Q2330	8-729-216-22 8-729-120-28 8-729-120-28	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2	2SA1162-G 2SC1623-L5L6 2SC1623-L5L6		
C2349 C2350 C2351 C2352	1-164-505-11 1-164-232-11 1-164-505-11 1-164-505-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	2.2MF 0.01MF 2.2MF	10%	16V 50V 16V 16V	Q2337 Q2338 Q2339 Q2340	8-729-925-79 8-729-120-28 8-729-120-28	TRANSISTOR 1	IMX3 2SC1623-L5L6 2SC1623-L5L6		

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REF.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.		DESCR	IPTION				REMARK
Q2342	8-729-120-28 8-729-120-28 8-729-120-28	TRANSISTOR 2S	C1623-L	5L6			R2365 R2366	1-216-05 1-216-08	3-00 1-00	METAL METAL	GLAZE GLAZE	1.5K 22K	5%	1/10W 1/10W	
		ISTOR>					R2368	1-216-04 1-216-08 1-216-03 1-216-06	1-00 3-00	METAL	GLAZE GLAZE	560 22K 220 5.6K	5% 5%	1/10W 1/10W 1/10W 1/10W	
R2303	1-216-049-00 1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	1 K 1 K 1 K	5% 1 5% 1	1/10W 1/10W 1/10W		R2375	1-216-08	1-00	METAL	GLAZE	22K 22K	5%	1/10W 1/10W	
R2305 R2306	1-216-033-00 1-216-045-00	METAL GLAZE METAL GLAZE	220 680	5% 1 5% 1	1/10W 1/10W		R2377 R2378 R2379	1-216-02 1-216-02 1-216-04	5-00 5-00 3-00	METAL METAL METAL	GLAZE GLAZE GLAZE	100 100 560	5% 5% 5%	1/10W 1/10W 1/10W	
R2309	1-216-045-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	680 680 470 1.8K	5% 5%	1/10W 1/10W 1/10W 1/10W			1-216-04 1-216-04 1-216-07		METAL METAL METAL	GLAZE GLAZE	560 560 10K		1/10W 1/10W 1/10W	
R2311 R2312	1-216-025-00 1-216-043-00	METAL GLAZE METAL GLAZE			1/10W 1/10W		R2384 R2385 R2386	1-216-08 1-216-07 1-216-04	11-00 15-00 19-00	METAL METAL METAL	GLAZE	22K 12K 1K	5%	1/10W 1/10W 1/10W	
R2314	1-216-055-00 1-216-061-00 1-216-081-00 1-216-041-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	560 1.8K 3.3K 22K 470	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W		K2390	1-216-04 1-216-07 1-216-08 1-216-07 1-216-04 1-216-01 1-216-01	13-00	METAL METAL METAL METAL	GLAZE GLAZE	100 47 560	5% 5%	1/10W 1/10W 1/10W 1/10W	
R2318 R2319	1-216-079-00	METAL GLAZE	1.8K 18K	5% 5%	1/10W 1/10W		R2394	1-216-01 1-216-04	19-00	METAL	GLAZE	47 1K		1/10W 1/10W	
R2320 R2321 R2322	1-216-063-00 1-216-049-00		1.8K 18K 3.3K 3.9K 1K		1/10W 1/10W 1/10W		R2399	1-216-00 1-216-04 1-216-00 1-216-04	13-00 11-00 19-00	METAL METAL METAL	GLAZE GLAZE GLAZE GLAZE	10 560 10 1K	5% 5% 5%	1/10W 1/10W 1/10W	
R2323 R2324 R2325	1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	5.6K 1K 1K	5% 5% 5%	1/10W 1/10W 1/10W		R3303	1-216-06	59-00	METAL	GLAZE GLAZE	10 6.8K		1/10W	
R2326 R2327	1-216-063-00	METAL GLAZE METAL GLAZE	3.3K 3.9K	5% 5%	1/10W 1/10W		R3306 R3307	1-216-09 1-216-08 1-216-08	89-91 85-00	METAL METAL	GLAZE GLAZE GLAZE	56K 47K 33K	5% 5% 5% 5%	1/10W 1/10W 1/10W	
R2328 R2329 R2330 R2331	1-216-025-00 1-216-061-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 100 3.3K 3.9K 100	5% 5% 5%	1/10W 1/10W 1/10W 1/10W		R3308 R3309 R3310 R3311	1-216-04 1-216-00	49-00 01-00	METAL METAL	GLAZE GLAZE GLAZE	560 1K 10		1/10W 1/10W 1/10W	
R2332 R2333	1-216-025-00	METAL GLAZE			1/10W 1/10W		R3312	1-216-08 1-216-04 1-216-08	49-00	METAL	GLAZE GLAZE GLAZE	22K 1K 27K	5 <b>%</b> %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%	1/10W 1/10W 1/10W	
R2334 R2335 R2336 R2337	1-216-295-00 1-216-295-00 1-216-295-00	METAL GLAZE	5.6K 0 0 0 220	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W		R3314 R3315 R3316	1-216-68 1-216-07 1-216-07 1-216-09 1-216-08	89-11 77-00 77-00	METAL METAL METAL	GLAZE GLAZE GLAZE	39K 15K 15K	5% 5% 5% 5%	1/10W 1/10W 1/10W	
R2338 R2340	1-216-081-00 1-216-049-00 1-216-041-00	METAL GLAZE METAL GLAZE	22K 1K	5% 5%	1/10W 1/10W		R3318 R3319	1-216-0	91-00 81-00	METAL	GLAZE	56K 22K	5	1/10W 1/10W	
R2342 R2343	1-216-049-00	METAL GLAZE	1K 1K	5% 5%	1/10W 1/10W		R3321 R3323 R3324	1-216-0 1-216-0 1-216-0	79-00 91-00 49-00	METAL METAL METAL	GLAZE GLAZE GLAZE	18K 56K 1K	5%%%%% 5%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%	1/10W 1/10W 1/10W 1/10W	
R2344 R2345 R2346	1-216-077-00 1-216-049-00		220 15K 1K	5% 5% 5%	1/10W 1/10W 1/10W		R3325	1-216-0	01-00	METAL	GLAZE	100		1/10W	
R2347 R2350	1-216-073-00	METAL GLAZE	27K 10K 220	5%	1/10W 1/10W 1/10W		R3330 R3331 R3332 R3339	1-216-0 1-216-0	33-00 81-00	METAL	. GLAZE . GLAZE . GLAZE . GLAZE	220 220 22K 22K	5%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%	1/10W 1/10W 1/10W 1/10W	
R2351 R2352 R2353 R2354	1-216-073-00 1-216-073-00	METAL GLAZE METAL GLAZE	10K 10K 3.3K	5% 5% 5%	1/10W 1/10W 1/10W 1/8W		R3340	1-216-0	73-00	METAL	. GLAZE	10K 12K	5%	1/10W 1/10W	
R2355	5 1-216-178-00	METAL GLAZE	150 12K	5% 5% 0.50%	1/8W	ı	R3342 R3343 R3344	1-216-6 1-216-0	70-11 73-00	METAL METAL	CHIP GLAZE GLAZE	6.2K 10K 10K		1/10W 1/10W 1/10W	
R2357 R2359 R2360	7 1-216-670-11 9 1-216-053-00 1-216-053-00	METAL CHIP METAL GLAZE METAL GLAZE	6.2K 1.5K 1.5K 1.5K	0.50% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	) )	R3349 R3350 R3351	1-216-0 1-216-0	173-00 165-00	METAI METAI	GLAZE L GLAZE L GLAZE	10K 4.7K 4.7K	5% 5%	1/10W 1/10W 1/10W	) ]
R2361 R2361 R2363	2 1-216-053-00	METAL GLAZE	1.5K	52	1/10v 1/10v 1/10v	ø	R3353 R3354	1-216-0	59-00	META	L GLAZE L GLAZE	2.7K 2.7K	5% 5%	1/10W 1/10W	)
R236			470 1.5K	5%	1/10		R3361	1-216-0	049-00	META	L GLAZE	1K	5%	1/10W	l

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REF.NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
R3364 R3365 R3367	1-216-073-00 1-216-295-00 1-216-097-00 1-216-077-00 1-216-083-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 5% 0 5% 100K 5% 15K 5% 27K 5%	1/10W 1/10W 1/10W 1/10W 1/10W		D011 D012 D014 D015	8-719-404-46 8-719-404-46 8-719-404-46 8-719-404-46	DIODE MA110 DIODE MA110			
R3370 R3371 R3374	1-216-001-00 1-216-001-00 1-216-001-00 1-216-059-00 1-216-089-91	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10 5% 10 5% 10 5% 2.7K 5% 47K 5%	1/10W 1/10W 1/10W 1/10W 1/10W		1C001 1C002	<1C> 8-759-194-83 8-759-403-44	IC TMC73C247-	-11		
R3401 R7312 R7313 R7314	1-216-057-00 1-216-049-00 1-216-047-00 1-216-057-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	2.2K 5% 1K 5% 820 5% 2.2K 5%	1/10W 1/10W 1/10W 1/10W		L001 L002	<01 1-408-409-00 1-410-476-11	INDUCTOR	10UH 33UH		
	<cry< td=""><td>STAL&gt;</td><td></td><td></td><td></td><td></td><td>∠CON</td><td>NECTOR</td><td></td><td></td><td></td></cry<>	STAL>					∠CON	NECTOR			
X2301	1-577-071-11	VIBRATOR, CE	RAMIC			W 20		NECTOR>	non (n	•	
	*************			******	*******	: M-45	*1-564-521-11 1-564-523-11 1-573-965-21	PLUG. CONNECT	TOR 8P	50P	
	*A-1306-435-A	# DUARD, CUM					∠TD 4	NCI CTOD>			
	<cap< td=""><td>ACITOR&gt;</td><td></td><td></td><td></td><td>0001</td><td></td><td>NSISTOR&gt;</td><td>2411C2 C</td><td></td><td></td></cap<>	ACITOR>				0001		NSISTOR>	2411C2 C		
C001 C002 C003 C004	1-124-261-00 1-163-125-00 1-136-161-00 1-126-301-11	ELECT CERAMIC CHIP	10MF 220PF 0.047MF 1MF	20% 5% 5% 20%	50V 50V 50V 50V	Q001 Q002 Q003 Q004 Q005	8-729-216-22 8-729-216-22 8-729-216-22 8-729-120-28 8-729-120-28	TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25	SA1162-G SA1162-G SC1623-L5L6		
€005	1-163-125-00	CERAMIC CHIP	220PF	20% 5%	50V	Q006 Q007	8-729-216-22 8-729-216-22	TRANSISTOR 25 TRANSISTOR 25	SA1162-G		
C014 C015 C017 C018 C019	1-124-910-11 1-124-464-11 1-124-589-11 1-163-141-00		47MF 0.22MF 47MF 0.001MF	20% 20% 20% 5% 5%	50V 50V 16V 50V 50V	Q008 Q009 Q010	8-729-120-28 8-729-120-28 8-729-120-28	TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25	SC1623-L5L6 SC1623-L5L6 SC1623-L5L6		
C020 C021 C029 C030	1-163-241-11 1-163-239-11 1-163-249-11 1-163-249-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	39PF 33PF 82PF	5% 5% 5% 5%	50V 50V 50V 50V	Q011 Q012 Q013 Q014	8-729-120-28 8-729-120-28 8-729-216-22 8-729-120-28	TRANSISTOR 29 TRANSISTOR 29 TRANSISTOR 29 TRANSISTOR 29	SC1623-L5L6 SA1162-G		
C034	1-163-125-00	CERAMIC CHIP	220PF	5%	50V		<res< td=""><td>ISTOR&gt;</td><td></td><td></td><td></td></res<>	ISTOR>			
C035 C036 C041 C042 C045	1-163-125-00 1-163-125-00 1-163-117-00 1-163-117-00 1-163-125-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	220PF 100PF 100PF	5% 5% 5% 5%	50V 50V 50V 50V 50V	R001 R002 R003 R004 R005	1-216-045-00 1-216-097-00 1-216-121-00 1-216-073-00 1-216-073-00		680 5% 100K 5% 1M 5% 10K 5% 10K 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
C047 C048 C049 C055 C064	1-124-261-00 1-124-261-00 1-124-261-00 1-163-809-11 1-163-121-00	ELECT ELECT ELECT CERAMIC CHIP CERAMIC CHIP		20% 20% 20% 10% 5%	50V 50V 50V 25V 50V	R006 R007 R008 R009 R011	1-216-065-00 1-216-027-00 1-216-041-00 1-216-027-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 5% 120 5% 470 5% 120 5% 220 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
C065	1-124-257-00	ELECT	2.2MF	20%	50V	R012	1-216-033-00	METAL GLAZE	220 5%	1/10W	
	<d10< td=""><td>DE&gt;</td><td></td><td></td><td></td><td>R013 R014 R015</td><td>1-216-067-00 1-216-057-00 1-216-089-91 1-216-067-00</td><td>METAL GLAZE METAL GLAZE METAL GLAZE</td><td>5.6K 5% 2.2K 5% 47K 5% 5.6K 5%</td><td>1/10W 1/10W 1/10W</td><td></td></d10<>	DE>				R013 R014 R015	1-216-067-00 1-216-057-00 1-216-089-91 1-216-067-00	METAL GLAZE METAL GLAZE METAL GLAZE	5.6K 5% 2.2K 5% 47K 5% 5.6K 5%	1/10W 1/10W 1/10W	
D001 D002 D003 D004 D005	8-719-404-46 8-719-404-46 8-719-404-46 8-719-404-46 8-719-404-46	DIODE MA110 DIODE MA110 DIODE MA110 DIODE MA110 DIODE MA110				R016 R017 R018 R019 R020 R021	1-216-067-00 1-216-065-00 1-216-073-00 1-216-065-00 1-216-097-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	5.6K 5% 5.6K 5% 4.7K 5% 10K 5% 4.7K 5% 100K 5%	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W	
D006 D007 D008 D009 D010	8-719-404-46 8-719-404-46 8-719-404-46 8-719-404-46 8-713-300-57	DIODE MAI10 DIODE MAI10 DIODE MAI10 DIODE MAI10 DIODE 1T33				R022 R023 R024 R025	1-216-089-91 1-216-093-00 1-216-065-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	47K 5% 68K 5% 4.7K 5% 10K 5%	1/10W 1/10W 1/10W 1/10W	

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REF.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
R026 R027 R028 R029 R030	1-216-081-00 1-216-041-00 1-216-023-00 1-216-097-00 1-216-097-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	22K 470 82 100K 100K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R092 R093 R094 R095	1-216-077-00 1-216-065-00 1-216-033-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	15K 5% 4.7K 5% 220 5% 10K 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R031 R032 R033 R034 R035	1-216-089-91 1-216-089-91 1-216-073-00 1-216-033-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	47K 47K 10K 220 220	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R096 R097 R098 R099 R100 R101	1-216-065-00 1-216-065-00 1-216-065-00 1-216-089-91 1-216-025-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 5% 4.7K 5% 4.7K 5% 4.7K 5% 47K 5% 100 5% 47K 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R036 R037 R038 R039 R040	1-216-033-00 1-216-073-00 1-216-033-00 1-216-073-00 1-216-089-91	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 10K 220 10K 47K	5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R102 R103 R104	1-216-089-91 1-216-033-00 1-216-033-00	METAL GLAZE	47K 5% 220 5% 220 5%	1/10W 1/10W 1/10W	
R041	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W			<cry< td=""><td>STAL&gt;</td><td></td><td></td><td></td></cry<>	STAL>			
R042 R043 R044	1-216-065-00 1-216-033-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 220 220	5% 5%	1/10W 1/10W 1/10W		X001		VIBRATOR, CRY		*****	*****
R045	1-216-025-00	METAL GLAZE	100		1/10W							
R046 R047 R048 R049	1-216-065-00 1-216-065-00 1-216-033-00 1-216-005-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 4.7K 220 4.7K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W				P2 BOARD, COM ************************************			
R050	1-216-295-00		0				C2001		CERAMIC CHIP	56PF	59	50V
R051 R052 R053 R054 R055	1-216-033-00 1-216-065-00 1-216-065-00 1-216-073-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 4.7K 4.7K 10K 10K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		C3001 C3002 C3003 C3004 C3005	1-163-111-00 1-163-127-00 1-163-127-00 1-124-034-51 1-124-034-51	CERAMIC CHIP CERAMIC CHIP ELECT ELECT	270PF	5% 5% 20% 20%	50V 50V 16V 16V
R056 R057 R058 R059 R060	1-216-065-00 1-216-065-00 1-216-065-00 1-216-073-00 1-216-065-00	METAL GLAZE METAL GLAZE	4.7K 4.7K 4.7K 10K 4.7K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		C3006 C3007 C3008 C3009 C3010	1-126-177-11 1-126-177-11 1-163-117-00 1-163-119-00 1-163-117-00		120PF	20% 20% 5% 5%	6.3V 6.3V 50V 50V 50V
R063 R064 R065 R066 R067	1-216-033-00 1-216-053-00 1-216-033-00 1-216-033-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE	220 1.5K 220 220 220 220	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		C3011 C3012 C3013 C3014 C3015	1-163-017-00 1-163-141-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.0047MF 0.0047MF	5% 10% 10% 5%	50V 50V 50V 50V 50V
R068 R069 R070 R071 R072	1-216-033-00 1-216-049-00 1-216-033-00 1-216-033-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE	220 1K 220 220 220	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		C3017 C3018	1-163-127-00	ELECT MYLAR CERAMIC CHIP	100MF 1MF 0.0033MF 270PF 150PF	20% 20% 5% 5% 5%	6.3V 50V 50V 50V 50V
R073 R074 R075 R076 R077	1-216-057-00 1-216-033-00 1-216-033-00 1-216-089-91 1-216-057-00	METAL GLAZE METAL GLAZE METAL GLAZE	2.2K 220 220 47K 2.2K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		C3021 C3022 C3023 C3024 C3025	1-163-115-00 1-126-301-11 1-126-177-11	CERAMIC CHIP ELECT ELECT	82PF 1MF 100MF	5% 5% 20% 20% 10%	50V 50V 50V 6.3V 50V
R078 R079 R080 R081 R082	1-216-033-00 1-216-025-00 1-216-061-00 1-216-033-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE	220 100 3.3K 220 220	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	)   	C3026 C3027 C3028 C3029 C3030	1-124-034-51 1-163-085-00 1-163-097-00	ELECT CERAMIC CHIP CERAMIC CHIP	33MF 2PF	5% 20% 0.25PF 5% 20%	50V 16V 50V 50V 16V
R083 R084 R085 R086 R087	1-216-033-00 1-216-097-00 1-216-033-00 1-216-033-00 1-216-033-00	) METAL GLAZE ) METAL GLAZE ) METAL GLAZE	220 100K 220 220 220	5% 5% 5% 5%	1/10k 1/10k 1/10k 1/10k 1/10k	) 	C3031 C3032 C3033 C3034 C3035	1-130-479-00 1-124-465-00 1-164-232-11	MYLAR  ELECT  CERAMIC CHIP		20% 5% 20% 10% 10%	25V 50V 50V 50V 50V
R088 R089 R090 R091	1-216-033-00 1-216-089-9 1-216-033-00 1-216-065-00	I METAL GLAZE ) METAL GLAZE	220 47K 220 4.7K	5% 5% 5% 5%	1/10V 1/10V 1/10V 1/10V	d d	C3036 C3038 C3038	1-126-163-11 1-124-034-51	L ELECT L ELECT	33MF 4.7MF 33MF 4.7MF	20% 20% 20% 20% 20%	16V 50V 16V 50V

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REF.NO. PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION		REMARK
C3040 1-164-232-11 C3041 1-124-034-51 C3042 1-130-491-00 C3043 1-124-465-00 C3044 1-164-232-11	CERAMIC CHIP 0.01MF ELECT 33MF MYLAR 0.047MF ELECT 0.47MF CERAMIC CHIP 0.01MF	10% 50V 20% 16V 5% 50V 20% 50V 10% 50V	L3001 L3002 L3003	<011 1-410-470-11 1-410-470-11 1-410-470-11	INDUCTOR INDUCTUR INDUCTOR	10UH 10UH 10UH	
C3045 1-164-232-11 C3046 1-126-177-11 C3047 1-164-232-11 C3049 1-164-232-11 C3050 1-164-232-11	ELECT 100MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF	10% 50V 20% 6.3V 10% 50V 10% 50V 10% 50V	L3005	1-410-470-11 1-408-420-00 1-408-421-00 1-410-434-21 1-408-427-00	INDUCTOR	10UH 82UH 100UH 180UH 330UH	
C3051 1-124-034-51 C3052 1-126-101-11 C3054 1-124-261-00 C3057 1-124-478-11 C3058 1-124-478-11	ELECT 33MF ELECT 100MF ELECT 10MF ELECT 100MF ELECT 100MF	20% 16V 20% 16V 20% 50V 20% 25V 20% 25V	1		NECTOR>		
<net td="" w<=""><td>IORK&gt;</td><td></td><td></td><td></td><td>NSISTOR&gt;</td><td></td><td></td></net>	IORK>				NSISTOR>		
CP3001 1-236-176-11 CP3002 1-236-176-11 CP3003 1-236-176-11	NETWORK, RES, THICK FILM NETWORK, RES, THICK FILM NETWORK, RES, THICK FILM		Q3001 Q3002 Q3003 Q3004 Q3005	8-729-120-28 8-729-120-28 8-729-216-22 8-729-120-28 8-729-216-22	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S	6C1623-L5L6 6C1623-L5L6 6A1162-G 6C1623-L5L6 6A1162-G	
<d101< td=""><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td></d101<>			1				
D3002 8-713-300-57 D3003 8-713-300-57 D3004 8-719-404-46	DIODE 1T33 DIODE MA110		Q3007 Q3008 Q3009 Q3010	8-729-216-22 8-729-216-22 8-729-216-22 8-729-120-28 8-729-120-28	TRANSISTUR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S	5A1162-G 5A1162-G 5C1623-L5L6 5C1623-L5L6	
<filt< td=""><td>TER&gt;</td><td></td><td>03011 03012</td><td>8-729-120-28 8-729-120-28</td><td>TRANSISTOR 2S</td><td>SC1623-L5L6 SC1623-L5L6</td><td></td></filt<>	TER>		03011 03012	8-729-120-28 8-729-120-28	TRANSISTOR 2S	SC1623-L5L6 SC1623-L5L6	
FL3003 1-236-129-11 FL3004 1-236-071-11	ENCAPSULATED COMPONENT		Q3013 Q3014 Q3015	8-729-120-28 8-729-120-28 8-729-120-28	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S	5C1623-L5L6 5C1623-L5L6 5C1623-L5L6	
	ENCAPSULATED COMPONENT				ISTOR>		
FL3008 1-236-163-11 FL3009 1-236-164-11	ENCAPSULATED COMPONENT ENCAPSULATED COMPONENT ENCAPSULATED COMPONENT ENCAPSULATED COMPONENT ENCAPSULATED COMPONENT		R3001 R3002 R3003 R3005 R3006	1·216-073-00 1-216-097-00 1-216-073-00 1-216-057-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 5% 100K 5% 10K 5% 2.2K 5% 1K 5%	1/10W 1/10W 1/10W 1/10W 1/10W
FL3012 1-236-163-11 FL3013 1-236-163-11	ENCAPSULATED COMPONENT ENCAPSULATED COMPONENT ENCAPSULATED COMPONENT ENCAPSULATED COMPONENT			1-216-049-00 1-216-049-00 1-216-049-00 1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 5% 1K 5% 1K 5% 1K 5% 1K 5%	1/10W 1/10W 1/10W 1/10W 1/10W
<10>			R3012		METAL GLAZE	68K 5% 100K 5%	1/10W
1C3003 8-752-332-83 1C3004 8-759-605-15	IC MC74HC04AF IC MC74HC04AF IC CXD122OAQ IC M5M4C50OL-10 IC M52678P		R3013 R3014 R3015 R3016	1-216-091-00 1-216-097-00 1-216-093-00	METAL GLAZE METAL GLAZE METAL GLAZE	56K 5% 100K 5% 68K 5%	1/10W 1/10W 1/10W 1/10W
1C3006 8-759-605-15 1C3007 8-759-011-65 1C3008 8-759-605-15 1C3009 8-759-605-14	1C M5M4C500L-10 1C MC74HC4053F 1C M5M4C500L-10 1C M52678P		R3017 R3018 R3019 R3020 R3021	1-216-091-00 1-216-049-00 1-216-017-00 1-216-057-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	15K 5% 56K 5% 1K 5% 47 5% 2.2K 5%	1/10W 1/10W 1/10W 1/10W 1/10W
	IC UPC78NO5H IC UPC7893AHF		R3022 R3024 R3025 R3026 R3027	1-216-049-00 1-216-033-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 5% 1K 5% 220 5% 1K 5% 1.5K 5%	1/10W 1/10W 1/10W 1/10W 1/10W
	PIN, CONNECTOR (PC BOARI	D) 50P	R3028 R3029 R3030 R3031 R3032	1-216-033-00 1-216-043-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 5% 220 5% 560 5% 560 5% 15K 5%	1/10W 1/10W 1/10W 1/10W 1/10W

**P2** 

**X3** 

Les composants identifiés par une trame et par une marque À sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.

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REF.NO. P	ART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
R3034 1 R3035 1 R3036 1	-216-061-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1.5K 220 3.3K 1K 820	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		UZ513	1-163-109-00 1-126-163-11 1-163-031-11 1-163-109-00 1-126-163-11	UKKAMIL CHIP	4.7MF 0.01MF	5% 20% 5% 20%	50V 50V 50V 50V 16V
R3039 1 R3040 1 R3041 1	-216-049-00 -216-055-00 -216-049-00 -216-033-00 -216-077-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 1.8K 1K 220 15K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		C2516 C2517 C2518	1-126-163-11 1-163-031-11 1-163-031-11 1-163-031-11 1-163-031-11	ELECT CERAMIC CHIP CERAMIC CHIP	4.7MF 0.01MF 0.01MF 0.01MF		50V 50V 50V 50V 50V
R3044 1 R3045 1 R3046 1 R3047 1	-216-061-00 -216-049-00 -216-077-00 -216-061-00 -216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 15K 3.3K 1K	5% 5% 5%			C2521 C2522 C2523 C2524 C2525	1-163-088-00 1-163-009-11 1-163-100-00 1-163-031-11 1-163-031-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	U.UIMF	0.25PF 10% 5%	50V 50V 50V 50V 50V
R3049 1 R3050 1 R3051 1 R3052 1	1-216-049-00 1-216-662-11 1-216-069-00 1-216-089-91 1-216-295-00	METAL GLAZE METAL CHIP METAL GLAZE METAL GLAZE METAL GLAZE	1 K 3 K 6 . 8 K 47 K 0	0.50% 5% 5% 5%	1/10W 1/10W 1/10W		C2526 C2527 C2528 C2529 C2532	1-163-031-11 1-163-031-11 1-163-031-11 1-163-031-11 1-126-163-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.01MF 0.01MF	20%	50V 50V 50V 50V 16V
R3055 I R3056 I R3057 I R3058 I	1-216-059-00 1-216-053-00 1-216-059-00 1-216-063-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	2.7K 1.5K 2.7K 3.9K 1K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		C2536 C2537 C2540 C2544 C2545	1-126-163-11	CERAMIC CHIP ELECT	4.7MF 0.01MF	20% 20%	16V 50V 16V 50V 50V
R3060 1 R3061 1 R3062 1 R3063 1	1-216-689-11 1-216-063-00 1-216-055-00 1-216-059-00 1-216-061-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	39K 3.9K 1.8K 2.7K 3.3K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		C2546 C2547 C2548 C2549 C2550	1-163-031-11 1-163-031-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.01MF 0.01MF 0.01MF		50V 50V 50V 50V
R3065 R3066 R3067 R3068	1-216-059-00 1-216-057-00 1-216-057-00 1-216-053-00 1-216-071-00		2.7K 2.2K 2.2K 1.5K 8.2K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		C2551 C2552 C2553 C2554 C2557	1-163-031-11 1-163-031-11 1-126-177-11 1-163-033-00 1-163-031-11	ELECT CERAMIC CHIP	0.01MF 100MF 0.022MF	20%	50V 50V 10V 50V 50V
R3070 R3071 R3072 R3073	1-216-063-00 1-216-047-00 1-216-055-00 1-216-059-00 1-216-069-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	3.9K 820 1.8K 2.7K 6.8K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		C2558 C2560 C2561 C2562 C2563	1-163-031-11 1-126-163-11 1-163-263-11 1-163-018-00 1-164-695-11	CERAMIC CHIP ELECT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	4.7MF 330PF 0.0056MF	20% 5% 10% 5%	50V 16V 50V 50V 50V
R3080A	1+216+358-91 <var< td=""><td>METAL OXIDE</td><td><b>l&gt;</b></td><td></td><td>1/10W</td><td></td><td>C2566 C2569 C2570 C2571 C2572</td><td>1-126-163-11 1-164-695-11 1-163-018-00 1-163-263-11 1-164-695-11</td><td>CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP</td><td>0.0022MF 0.0056MF 330PF</td><td>20% 5% 10% 5% 5%</td><td>16V 50V 50V 50V 50V</td></var<>	METAL OXIDE	<b>l&gt;</b>		1/10W		C2566 C2569 C2570 C2571 C2572	1-126-163-11 1-164-695-11 1-163-018-00 1-163-263-11 1-164-695-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.0022MF 0.0056MF 330PF	20% 5% 10% 5% 5%	16V 50V 50V 50V 50V
RV3002	1-238-012-11 <tra< td=""><td>RES, ADJ, CAI RES, ADJ, CAI INSFORMER&gt;</td><td></td><td></td><td></td><td></td><td>C2573 C2574 C2575 C2577 C2577</td><td>1-163-031-11</td><td>CERAMIC CHIF CERAMIC CHIF ELECT</td><td>0.0056MF</td><td>5% 10% 20% 20%</td><td>50V 50V 50V 50V 50V</td></tra<>	RES, ADJ, CAI RES, ADJ, CAI INSFORMER>					C2573 C2574 C2575 C2577 C2577	1-163-031-11	CERAMIC CHIF CERAMIC CHIF ELECT	0.0056MF	5% 10% 20% 20%	50V 50V 50V 50V 50V
T3002				*****	*****	******	C2580 C2581 C2582		CERAMIC CHII CERAMIC CHII ELECT	330PF	10% 5% 5% 20% 20%	50V 50V 50V 16V 16V
	<cai< td=""><td>PACITOR&gt;</td><td></td><td></td><td></td><td></td><td>C2590 C2591 C2592</td><td>1-135-179-21 1-135-179-21</td><td>TANTAL. CHII TANTAL. CHII TANTAL. CHII</td><td>2.2MF 2.2MF 2.2MF</td><td>20% 20% 20% 20%</td><td>16V 16V 16V 16V</td></cai<>	PACITOR>					C2590 C2591 C2592	1-135-179-21 1-135-179-21	TANTAL. CHII TANTAL. CHII TANTAL. CHII	2.2MF 2.2MF 2.2MF	20% 20% 20% 20%	16V 16V 16V 16V
C2502 C2505 C2506	1-124-477-11 1-124-477-11 1-124-638-11 1-126-177-11 1-126-163-11	ELECT ELECT	47MF 47MF 22MF 100MF 4.7MF		20% 20% 20% 20% 20%	16V 16V 6.3V 10V 16V			ODE>			

**X3** 

REF.NO. PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION		REMARK
			R2511	1-216-667-11 1-216-667-11	METAL CHIP	4.7K 0.50% 4.7K 0.50%	1/10W 1/10W
FB2502 1-410-397- FB2504 1-410-397-		CTOR 1.1UH CTOR 1.1UH	R2518	1-216-025-00 1-216-025-00 1-216-025-00 1-216-025-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 5% 100 5% 100 5% 100 5% 100 5%	1/10W 1/10W 1/10W 1/10W 1/10W
	11 ENCAPSULATED COMPO	DNENT DNENT DNENT	R2522 R2531 R2532 R2533 R2534	1-216-025-00 1-216-049-00 1-216-049-00 1-216-681-11 1-216-675-11	METAL GLAZE	1K 5% 18K 0.50%	1/10W 1/10W 1/10W 1/10W 1/10W
FL2508 1-236-129 FL2509 1-236-129	11 ENCAPSULATED COMPO	DNENT DNENT	R2535 R2536 R2537 R2538 R2539	1-216-687-11	METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL GLAZE	33K 0.50%	1/10W 1/10W 1/10W 1/10W 1/10W
	:IC>		R2540 R2541 R2542 R2543	1-216-049-00 1-216-049-00 1-216-049-00 1-216-681-11 1-216-675-11	METAL GLAZE METAL GLAZE METAL GLAZE METAL CHIP METAL CHIP	18K 0.50%	1/10W 1/10W 1/10W 1/10W 1/10W
	45 IC CXD2555Q 48 IC CXP5068H-205Q 02 IC S-80743AL-A7-S		R2545 R2546 R2547 R2548 R2549	1-216-687-11 1-216-677-11 1-216-685-11 1-216-681-11 1-216-049-00	METAL CHIP METAL CHIP METAL GLAZE	27K 0.50% 18K 0.50% 1K 5%	1/10W 1/10W 1/10W 1/10W 1/10W
			R2550 R2551 R2552 R2557 R2559	1-216-049-00 1-216-049-00 1-216-025-00 1-216-025-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 5% 1K 5% 100 5% 100 5% 100 5%	1/10W 1/10W 1/10W 1/10W 1/10W
J2501 1-573-966	<pre><jack> -11 PIN, CONNECTOR (P <coil></coil></jack></pre>	C BOARD) 36P	R2560 R2561 R2562 R2563 R2564	1-216-025-00 1-216-073-00 1-216-073-00 1-216-025-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 5% 10K 5% 10K 5% 10K 5% 100 5%	1/10W 1/10W 1/10W 1/10W 1/10W
	-31 INDUCTOR CHIP 10 -31 INDUCTOR CHIP 10 -11 INDUCTOR CHIP 2. -31 INDUCTOR CHIP 10	UH 2UH		1-216-089-91 1-216-073-00 1-216-073-00 1-216-073-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	47K 5% 10K 5% 10K 5% 10K 5% 10K 5%	1/10W 1/10W 1/10W 1/10W 1/10W
L2512 1-410-204 L2513 1-410-204 L2514 1-410-204 L2515 1-410-204 L2516 1-410-204	-31 INDUCTOR CHIP 10 -31 INDUCTOR CHIP 10 -31 INDUCTOR CHIP 10	ON ON ON ON ON ON ON ON ON ON ON ON ON O	R2570 R2571 R2572 R2573 R2574	1-216-049-00 1-216-025-00 1-216-025-00 1-216-025-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 5% 100 5% 100 5% 100 5% 100 5%	1/10W 1/10W 1/10W 1/10W 1/10W
	-31 INDUCTOR CHIP 10 <transistor></transistor>	DUH	R2575 R2576 R2577 R2578 R2578	1-216-025-00 1-216-025-00 1-216-025-00 1-216-025-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 5% 100 5% 100 5% 100 5% 100 5%	1/10W 1/10W 1/10W 1/10W 1/10W
	-28 TRANSISTOR 2SC162	23-L5L6	R2583 R2584	1-216-025-00 1-216-025-00	METAL GLAZE METAL GLAZE	100 5% 100 5% 100 5%	1/10W 1/10W
		DK 5% 1/10W DK 0.50% 1/10W	R2585 R2590 R2591	1-216-631-11	METAL GLAZE METAL CHIP METAL CHIP	150 0.50	1/10W % 1/10W % 1/10W
R2505 1-216-667 R2506 1-216-667 R2507 1-216-097	-11 METAL CHIP 4.7 -11 METAL CHIP 4.7 -00 METAL GLAZE 100	7K 0.50% 1/10W 7K 0.50% 1/10W DK 5% 1/10W	R2592 R2593 R2594 R2595	1-216-665-11 1-216-665-11 1-216-665-11	METAL CHIP	3.9K 0.50 3.9K 0.50 3.9K 0.50	% 1/10W % 1/10W % 1/10W % 1/10W
R2508 1-216-699 R2509 1-216-097 R2510 1-216-097	-00 METAL GLAZE 100	OK 0.50% 1/10W OK 5% 1/10W OK 5% 1/10W	R2596 R2597	1-216-665-11 1-216-665-11		3.9K 0.50 3.9K 0.50	% 1/10W % 1/10W

**X3** 

**Y2** 

REF.	NO.	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
				2 04	0. 50% 1/1	Mil		C462	1 124 400-11	ELECT	1MF	20	9/	507
R25 R26 R26	99 00 01	1-216-665-11 1-216-665-11 1-216-665-11 1-216-665-11 1-216-665-11	METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP	3.9K 3.9K 3.9K	0.50% 1/1 0.50% 1/1 0.50% 1/1 0.50% 1/1 0.50% 1/1	WOW		C465 C466 C467 C468	1-124-499-11 1-130-485-00 1-130-485-00 1-136-169-00 1-136-169-00	MYLAR MYLAR FILM FILM	0.015MF 0.015MF 0.22MF 0.22MF	5% 5% 5% 5%		50V 50V 50V 50V
R26 R26	05 06 07	1-216-665-11 1-216-679-11 1-216-679-11 1-216-679-11 1-216-679-11	METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP	15K 15K 15K	0.50% 1/1 0.50% 1/1 0.50% 1/1 0.50% 1/1 0.50% 1/1	OW		C470 C471 C472	1-126-157-11 1-126-157-11 1-124-589-11 1-164-232-11	ELECT ELECT CERAMIC CHIP	10MF 10MF 47MF 0.01MF	20 20 20 10	%	16V 16V 16V 50V
R26	09	1-216-025-00	METAL GLAZE	100	<b>5%</b> 1/1	OW		C473 C474	1-164-232-11 1-124-234-00	CERAMIC CHIP ELECT		10 20	% %	50V 16V
	11		METAL GLAZE METAL GLAZE METAL GLAZE	100 100 100	5% 1/1 5% 1/1 5% 1/1	OW		C475 C476 C477 C478	1-164-232-11 1-124-234-00 1-164-232-11 1-124-478-11	ELECT CERAMIC CHIP ELECT	22MF 0.01MF 100MF	10 20 10 20	1% 1% 1%	50V 16V 50V 25V
VAE			STAL>	CTAL				C479	1-126-163-11	ELECT	4.7MF 4.7MF	20		50V 50V
	-	1-579-692-31			********	***	:*****	C481	1-124-768-11 1-124-768-11 1-126-163-11	ELECT ELECT	4.7MF 4.7MF	20 20 20	)%	50V 50V 50V
		*A-1394-442-A	Y2 BOARD, COM	IPLETE	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				1-163-113-00	CERAMIC CHIP	6874	5% 5%		50V 50V
		<cap< td=""><td>**************************************</td><td>****</td><td></td><td></td><td></td><td>C485 C487 C488</td><td>1-163-038-00 1-164-232-11 1-164-232-11</td><td>CERAMIC CHIE CERAMIC CHIE CERAMIC CHIE</td><td>0.01MF</td><td>10 10</td><td></td><td>25V 50V 50V</td></cap<>	**************************************	****				C485 C487 C488	1-163-038-00 1-164-232-11 1-164-232-11	CERAMIC CHIE CERAMIC CHIE CERAMIC CHIE	0.01MF	10 10		25V 50V 50V
C40 C42		1-124-234-00 1-126-301-11	ELECT ELECT	22MF 1MF	20%		16V 50V		<010	DDE>				
C42 C42 C42	25 26	1-126-301-11 1-126-301-11 1-124-465-00	ELECT	1MF 1MF 0.47MF	20% 20%		50V 50V 50V	D405 D406 D407	8-719-107-13	DIODE RD18M- DIODE RD18M- DIODE RD18M-	-B1			
C42 C42 C43	29	1-126-163-11 1-124-478-11 1-124-261-00	ELECT ELECT ELECT	4.7MF 100MF 10MF	20% 20% 20%		50V 25V 50V	D408 D409	8-719-105-83 8-719-981-50	DIODE RD5.1	1-B3			
C43 C43	31	1-126-301-11 1-126-301-11	ELECT ELECT	1MF 1MF	20% 20%		50V 50V	D410 D413 D414	8-719-158-19	DIODE RB-100 DIODE RD6.25 DIODE RD15SI	SB			
C4: C4: C4:	34 35	1-131-347-00 1-126-301-11 1-130-994-11	TANTALUM ELECT FILM	1MF 1MF 0.033M			16V 50V 50V	D415	8-719-158-55 <1C	DIODE RD15S	Š			
C4:		1-126-301-11 1-137-372-11	ELECT FILM	1MF 0.022M	20% F 5%		50V 50V	10403	8-759-996-43					
C4: C4: C4: C4: C4:	39 40 41	1-126-301-11 1-124-034-51 1-126-301-11 1-126-301-11 1-124-261-00	ELECT ELECT ELECT	1MF 33MF 1MF 1MF 10MF	20% 20% 20% 20% 20%		50V 16V 50V 50V 50V	1C404 1C406 1C407	8-759-067-24 8-752-037-24 8-759-245-75 8-752-057-18	IC 24C04AI/ IC CXA1264A IC TA8184P	P S			
C4	43	1-124-589-11	ELECT	47MF	20%		16V		<tr< td=""><td>ANSISTOR&gt;</td><td></td><td></td><td></td><td></td></tr<>	ANSISTOR>				
C4 C4 C4	45 46	1-126-163-11 1-126-163-11 1-124-234-00 1-126-301-11	ELECT ELECT ELECT ELECT	4.7MF 4.7MF 22MF 1MF	207 207 207 207		50V 50V 16V 50V	Q404 Q405 Q409 Q410	. 8-729-216-22 8-729-216-22 8-729-120-28 8-729-120-28	TRANSISTOR	25A1162-0 25C1623-1	5 L5L6		
C4 C4 C4	49	1-136-170-00 1-163-009-11 1-137-366-11	FILM CERAMIC CHIP FILM	0.27MF 0.001M 0.0022	IF 10%		50V 50V 50V	4110		SISTOR>				
C4 C4	51	1-124-261-00 1-124-261-00	ELECT	10MF 10MF	207 207		50V 50V	R447	1-216-033-00 1-216-033-00			5% 5%	1/10W 1/10W	1
C4 C4 C4	53 54 55	1-137-366-11 1-131-368-00 1-131-347-00	TANTALUM Tantalum	0.0022 3.3MF 1MF	107 207		50V 16V 16V	R453 R464 R465 R466	1-216-033-00 1-216-081-00 1-216-081-00 1-216-025-00	METAL GLAZE METAL GLAZE	22K 22K	5% 5%	1/10W 1/10W 1/10W 1/10W	a) A)
€4	56 157	1-136-171-00 1-136-175-00	FILM	0.33Mi 0.68Mi	5%		50V 50V	R467 R468	1-216-033-00 1-216-033-00	METAL GLAZE	220 220	5% 5%	1/10W 1/10W	
C4 C4	158 159 160 161	1-126-101-11 1-126-101-11 1-126-101-11 1-124-499-11	ELECT ELECT	100MF 100MF 100MF 1MF	207 207 207 207 207	ž	16V 16V 16V 50V	R469 R470 R471	1-216-055-00 1-216-055-00 1-216-033-00 1-216-033-00	) METAL GLAZE ) METAL GLAZE	1.8K 220	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	W W

The components identified by shading and mark  $\stackrel{\wedge}{\mathbb{A}}$  are critical for safety.

Replace only with part number specified.

Les composants identifiés par une trame et par une marque À sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.

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REF.NO. PART NO.	DESCRIPTION		REMARK	REF.NO. PART NO. DESCRIPTION	1	REMARK
R472 1-216-686-11 R473 1-216-295-00 R474 1-216-295-00 R475 1-216-055-00 R476 1-216-673-11	METAL GLAZE O METAL GLAZE O METAL GLAZE 1.:	K 0.50% 1/10W 5% 1/10W 5% 1/10W 8K 5% 1/10W 2K 0.50% 1/10W		*A-1316-178-A G BOARD, CO! ************************************	MPLETE ***** LATING	
R478 1-216-089-91 R479 1-216-673-11 R480 1-216-676-11	METAL CHIP 8. METAL CHIP 11	K 0.50% 1/10W K 5% 1/10W 2K 0.50% 1/10W K 0.50% 1/10W		*A-1316-178-A G BOARD, CO! *************  3-701-754-00 PLATE, INSU! 4-382-854-11 SCREW (M3X10) <capacitor>  C601 1-161-830-00 CERAMIC C602 1-130-317-00 FILM</capacitor>	)), P, SW (+)	
R481 1-216-089-91 R482 1-216-089-91 R483 1-216-089-91 R485 1-216-073-00	METAL GLAZE 47 METAL GLAZE 47 METAL GLAZE 47 METAL GLAZE 10	K 5% 1/10W K 5% 1/10W K 5% 1/10W		C601	4700PF 10%	500V 100V 250V 1KV 25V
R486 1-216-073-00 R488 1-216-295-00 R494 1-216-025-00	METAL GLAZE 10 METAL GLAZE 0	n 5% 1/10W		C607 1-124-563-11 ELECT C608 1-128-484-11 ELECT C609 1-137-141-11 FILM C612 1-124-962-11 ELECT		25V 200V 600V 25V
R496 1-216-025-00 R497 1-216-033-00 R498 1-216-025-00 R499 1-216-025-00	METAL GLAZE 10 METAL GLAZE 22 METAL GLAZE 10	00 5% 1/10W		C615 1-124-798-11 ELECT C616 1-124-557-11 ELECT C617 1-164-143-11 CERAMIC	1MF 20% 1000MF 20% 0.001MF 10%	200V 160V 25V 1KV
R500 1-216-081-00 R501 1-216-669-11 R502 1-216-033-00 R503 1-216-663-11	METAL GLAZE 22	00 5% 1/10W 2K 5% 1/10W 66K 0.50% 1/10W 20 5% 1/10W 3K 0.50% 1/10W		C620 1-136-721-21 FILM	0.56MF 5% C 1500PF 1.5MF 10%	200V 400V 1KV
R507 1-216-295-00 R509 1-216-065-00 R510 1-216-061-00	METAL GLAZE 0 METAL GLAZE 4. NETAL GLAZE 3.	.6K 0.50% 1/10W 5% 1/10W .7K 5% 1/10W .3K 5% 1/10W .7K 5% 1/10W		C622 1-136-853-11 FILM C623 1-137-087-11 FILM C624 1-126-771-11 ELECT	0.001MF 10% 0.56MF 5% 0.068MF 3% 100MF 20%	200V 0 160V 16V
R513 1-216-663-11 R515 1-216-295-00 R517 1-216-025-00	METAL CHIP 3.  METAL GLAZE 0  METAL GLAZE 10	.3K 0.50% 1/10W 5% 1/10W 00 5% 1/10W 7K 5% 1/10W 5% 1/10W		C626	470MF 20% 4700PF 10% 47MF 20% 1MF 20%	10V 500V 50V 50V
R519 1-216-295-00 R521 1-216-061-00 R522 1-216-033-00	METAL GLAZE O	5% 1/10% 5% 1/10% 3K 5% 1/10% 20 5% 1/10% 20 5% 1/10% 7K 5% 1/10%	] ]	C633 1-130-483-00 MYLAR C634 1-126-803-11 ELECT C637 & 1-136-311-51 FILM C638 & 1-161-743-12 CERAMIC C639 & 1-125-692-11 ELECT (BLOCK	0.47MF 20%	50V 16V 125V 400V 200V
R524 1-216-065-00 R525 1-216-049-00 R526 1-216-049-00	METAL GLAZE 11	K 5% 1/100 K 5% 1/100	) )	C640 A1-136-311-51 FILM C641 1-126-101-11 ELECT C642 A1-161-743-12 CERAMIC	0.47MF 20% 100MF 20% 0.0047MF	125V 16V 400V
R528 1-216-689-11 R529 1-216-097-00 R531 1-216-097-00	METAL CHIP 39 METAL GLAZE 10 METAL GLAZE 10	10K 0.50% 1/10V 9K 0.50% 1/10V 00K 5% 1/10V 00K 5% 1/10V	9	С644 1-126-104-11 ELECT С646 1-124-907-11 ELECT С647 А.1-164-486-51 CERAMIC С648 А.1-125-692-11 ELECT (ВЬОСТ	0.0033MF 20% () 820MF 20%	35V 50V 400V 200V
R532 1-216-097-00 R533 1-216-097-00 R535 1-216-049-00 R536 1-216-065-00 R537 1-216-049-00	) METAL GLAZE 10 ) METAL GLAZE 10 ) METAL GLAZE 4	00K 5% 1/10V 00K 5% 1/10V K 5% 1/10V .7K 5% 1/10V K 5% 1/10V	d d v	C649	0.0033MF 20% 0.0047MF 0.0047MF 10% 0.0047MF 10%	400V 400V 50V
R538 1-218-753-11 R539 1-216-689-11 R540 1-216-025-00 R541 1-216-025-00	L METAL CHIP 3º D METAL GLAZE 1º D METAL GLAZE 1º	10K 0.50% 1/10V 9K 0.50% 1/10V 00 5% 1/10V 00 5% 1/10V	d d	C662	47MF 20% 6800MF 20% 6800MF 20% 0.001MF 10%	35V 16V 16V 50V
R542 1-216-025-00 R543 1-216-025-00 R546 1-216-682-1 R547 1-216-682-1	D METAL GLAZE 1 1 METAL CHIP 2	00 5% 1/10 00 5% 1/10 0K 0.50% 1/10 0K 0.50% 1/10	M M	C671 1-126-101-11 ELECT <diode></diode>	100MF 20%	16V
	ONNECTOR>		-	D602	40H C6M C6MR	
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Les composants identifiés par une trame et par une marque À sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.

REF.NO. PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION		REMARK
D609 8-719-109-84 D610 8-719-979-58 D611 8-719-979-58 D613 8-719-300-33 D614 8-719-979-58			L602 L604 L605	<coil 1-408-404-00="" 1-412-526-11<="" 1-459-862-11="" td=""><td>,&gt; COTT CHOKE</td><td>90UH 3.9UH 12UH 3.9UH 560UH</td><td></td></coil>	,> COTT CHOKE	90UH 3.9UH 12UH 3.9UH 560UH	
D615 8-719-975-76 D616 8-719-025-81 D617 8-719-110-02 D618 8-719-911-19 D619 8-719-975-76	DIODE SB140 DIODE S3V10SB DIODE RD7.5ESB1 DIODE 1SS119 DIODE SB140		L607 L611 L612	1-408-404-00 1-412-546-41 1-412-540-31		3.90H 560UH 180UH	
D621 8-719-908-03 D622 8-719-908-03 D623 8-719-110-63 D624 8-719-109-89	DIODE GPO8D DIODE GPO8D DIODE RD24ESB3 DIODE RD5.6ESB2		Q603 Q604 Q607	8-729-011-15 8-729-119-80 8-729-119-78	TRANSISTOR 2	SC2688-LK SC2785-HFF	
D628 8-719-110-49 D629 8-719-911-19 D631 8-719-911-19 D632 8-719-511-40 D633 A 8-719-505-60	DIODE GPO8D  DIODE RD18ESB2 DIODE 1SS119 DIODE 1SS119 DIODE S1VB40 DIODE S5VB60  DIODE 1SS119 DIODE RD5. IESB2 DIODE 1SS119 DIODE RD27FB2	n april	Q609 Q610 Q611 Q612 Q613	8-729-820-82 8-729-820-82 8-729-820-82 8-729-386-12 8-729-209-15	TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2:	SA1175-HFE SA1208-S SA1208-S SB861-C SD2012	
D634 8-719-911-19 D636 8-719-109-85 D638 8-719-911-19 D650 8-719-160-81	DIODE 1SS119 DIODE RD5.1ESB2 DIODE 1SS119 DIODE RD27FB2		Q615 Q616 Q618 Q620	8-729-820-82 8-729-820-82 8-729-017-05 8-729-119-78 8-729-119-78	TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2:	SC458ZNP  SA1208-S  SA1837  SA1175-HFE  SC2785-HFE	
	E> FUSE, GLASS TUBE 6.3A/125V CLIP, FUSE; F601		i <b>Q</b> 629	8-729-119-76 8-729-378-84 8-729-255-12	TRANSISTOR 2	SD788-5	
<fer< td=""><td>RITE BEAD&gt;</td><td></td><td>1</td><td><res< td=""><td>ISTOR&gt;</td><td></td><td></td></res<></td></fer<>	RITE BEAD>		1	<res< td=""><td>ISTOR&gt;</td><td></td><td></td></res<>	ISTOR>		
FB602 1-410-397-21 FB604 1-410-396-41 FB606 1-410-397-21 FB607 1-410-397-21 FB608 1-410-396-41	FERRITE BEAD INDUCTOR 1.1UH FERRITE BEAD INDUCTOR 0.45UH FERRITE BEAD INDUCTOR 1.1UH FERRITE BEAD INDUCTOR 1.1UH FERRITE BEAD INDUCTOR 0.45UH		R604 R605 R606 R609 R610	1-202-933-61 1-249-428-11 1-214-919-00 1-249-434-11 1-215-469-00	FUSIBLE CARBON METAL CARBON METAL	0.1 10% 8.2K 5% 180K 1% 27K 5% 100K 1%	1/2W F 1/4W 1/2W 1/4W F 1/4W
FB630 1-410-396-41 FB631 1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH FERRITE BEAD INDUCTOR 0.45UH		R611 R612 R613 R614	1-249-421-11 1-202-883-11 1-216-386-91 1-249-418-11 1-215-438-00	CARBON SOLID METAL OXIDE CARBON	2.2K 5% 680K 20% 0.56 5% 1.2K 5%	1/4W F 1/2W 3W F 1/4W
	PIN, CONNECTOR (5MM PITCH) 2P PLUG, CONNECTOR 9P PLUG, CONNECTOR 8P PLUG, CONNECTOR 5P PLUG, CONNECTOR 4P		R616 R617 A	1-215-438-00 1-215-436-00 1-216-356-91 1-249-418-11 1-216-444-91 1-249-418-11	METAL	4.3K 1% 4.3K 1% 3.9 5% 1.2K 5% 82K 5% 1.2K 5%	1/4W 1/4W 1W F 1/4W 1W F 1/4W F
G-8 *1-580-843-11 G-9 1-508-765-00 G-10 1-508-786-00 G-11 *1-564-511-71 G-12 1-564-505-11	PIN, CONNECTOR (POWER) PIN, CONNECTOR (5MM PITCH) 3P PIN, CONNECTOR (5MM PITCH) 2P PLUG, CONNECTOR 8P PLUG, CONNECTOR 2P		R621 R622 R623 R624 R625	1-247-691-11 1-249-424-11 1-249-417-11 1-214-780-00 1-216-386-91	CARBON CARBON CARBON METAL METAL OXIDE	18 5% 3.9K 5% 1K 5% 130K 1% 0.56 5%	1/4W F 1/4W F 1/4W 1/4W 3W F
<10>			R627	1-216-356-91 1-202-883-11	METAL OXIDE SOLID	3.9 5% 680K 20%	1W F 1/2W
1C601 <u>A</u> 8-749-921-89 1C602 8-759-231-58	IC SE115N IC TA7812S		R628 R629 R631	1-249-410-11 61-217-249-11 1-249-417-11	CARBON WIREWOUND CARBON	270 5% 1 10% 1K 5%	1/4W F 3W F 1/4W F
<j⊍} JW76 (1-408-421-00</j⊍} 	IPER COIL> INDUCTOR 100UH		R632 R633 R634 R638 R639	1-214-913-00 1-249-429-11 1-249-441-11 1-247-807-31 1-247-807-31	METAL CARBON CARBON CARBON CARBON	100K 1% 10K 5% 100K 5% 100 5% 100 5%	1/2W 1/4W 1/4W 1/4W F 1/4W F
			R640 R641 R642 R643	1-249-421-11 1-249-429-11 1-215-421-00 1-260-123-11	CARBON CARBON METAL CARBON	2.2K 5% 10K 5% 1K 1% 100K 5%	1/4W F 1/4W 1/4W 1/2W

The components identified by shading and mark A are critical for safety.

Replace only with part number

specified.

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REF.NO. PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARI																																																																																																																																																																																											
R644 1-249-415-11 R645 1-249-417-11 R649 1-249-424-11 R650 1-249-377-11 R651 1-215-429-00	CARBON	680 5% 1K 5% 3.9K 5% 0.47 5% 2.2K 1%	1/4W 1/4W 1/4W 1/4W	F	CR4	*1-508-765-00 1-564-511-11 *1-564-508-11	PLUG. CONNECT	OR 8P	3P																																																																																																																																																																																												
■R652 <b>A</b>	METAL		1/49	and the specific property of the specific prop	 	<s0c< th=""><th></th><th></th><th>HVIJETIJS</th><th>tolere da le cont</th></s0c<>			HVIJETIJS	tolere da le cont																																																																																																																																																																																											
R654 1-215-429-00 R655 1-249-426-11 R656 1-215-454-00	CARBON	2.2K 1% 5.6K 5% 24K 1%	1/4W 1/4W 1/4W		CKTAU	A1-251-026-11	SULKEI, FICIE	RE LUDE	American del																																																																																																																																																																																												
R657 <u>A</u> 1-216-386-91	METAL OXIDE	0.56 5%	34			<010																																																																																																																																																																																															
R660 1-249-413-11 R661 △1-202-884-91 R662 △1-205-900-11 R663 △1-215-904-91 R666 1-249-377-11	SOLID	470 5% 820K 20% 1.2 5% 100K 5% 0.47 5%	1/4W 1/2W 15W 2W 1/4W	F	D701 D702 D703 D704 D705	8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19	DIODE 188119 DIODE 188119																																																																																																																																																																																														
R667 A 1-202-888-91 R668 A 1-215-904-91	SOLID METAL OXIDE	2.2M 20X 100K 5X	20	F	D706 D707	8-719-911-19 8-719-110-36	DIODE 188119 DIODE RD13ESE	32																																																																																																																																																																																													
R669 1-249-377-11 R675 1-249-377-11 R687 1-249-417-11	CARBON CARBON CARBON	100K 5% 0.47 5% 0.47 5% 1K 5%	1/4W 1/4W 1/4W	F		<001	L>																																																																																																																																																																																														
R689 1-247-742-11 R691 1-249-421-11 R694 1-249-421-11 R697 1-249-382-11 R698 A1-216-386-91				F	L701 L702 L704	1-408-429-00	INDUCTOR CARBON	470UH 0.47 5% 22UH	1/2W	F.																																																																																																																																																																																											
R698 A 1-216-386-91	METAL OXIDE	0.56 5%	34			<nec< th=""><th>ON LAMP&gt;</th><th></th><th></th><th></th></nec<>	ON LAMP>																																																																																																																																																																																														
	LAY>				NL701 NL702	1-519-108-99 1-519-108-99	LAMP, NEON LAMP, NEON																																																																																																																																																																																														
RY601 & 1-515-805-21 RY602 & 1-515-805-21	RELAY, POWER RELAY, POWER					<tr <="" th=""><th>ANSISTOR&gt;</th><th></th><th></th><th></th></tr> <tr><th><tr.< th=""><th>ANSFORMER&gt;</th><th></th><th></th><th></th><th>Q701</th><th>8-729-119-78</th><th>TRANSISTOR 2</th><th>SC2785-HFE</th><th></th><th></th></tr.<></th></tr> <tr><th>T601 A1-450-791-12</th><td>TRANSFORMER,</td><td>POWER ISOI</td><td>ATION.</td><td></td><td>Q702 Q703</td><td>8-729-119-80</td><td>TRANSISTOR 2: TRANSISTOR 2: SHEET (TRANS</td><td>SC2688-LK</td><td>1703</td><td></td></tr> <tr><th>T603</th><td>TRANSFORMER</td><td>HEATER</td><td></td><td>e e e e e e e e e e e e e e e e e e e</td><td></td><td>4-382-854-11</td><td>SCREW (M3X10)</td><td>), P, SW (+);</td><td>Q703</td><td></td></tr> <tr><th>1606 A1-421-372-21</th><td>TRANSFORMER,</td><td>FERRITE (I</td><td>.FT)</td><td>Andreas de la companya del companya del companya de la companya de</td><td>Q704 Q705 Q706</td><td>8-729-200-17</td><td>TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2:</td><td>SA1091-0</td><td></td><td></td></tr> <tr><th>T608 &amp;1-423-665-11</th><th>AND A COMPANY OF THE PARTY OF T</th><th>rowen</th><th></th><th></th><th>4100</th><th></th><th></th><th>3H1071 0</th><th></th><th></th></tr> <tr><th></th><th>RISTOR&gt;</th><th>100 to 100 to</th><th></th><th></th><th>P701</th><th><re: 1-202-847-00</re: </th><th>SISTOR&gt;</th><th>560K 20%</th><th>1/2W</th><th></th></tr> <tr><th>VDR601A1-809-786-11</th><th></th><th>******</th><th>******</th><th>*******</th><th>R702</th><th>1-202-814-11 1-202-818-00</th><th>SOLID SOLID</th><th>33K 20% 1K 20%</th><th>1/2W 1/2W</th><th></th></tr> <tr><th>*A-1331-259-A</th><td>CR BOARD, CO</td><td></td><td></td><td></td><td>R704 R705</td><td>1-202-842-11 1-202-828-11</td><td>SOLID SOLID</td><td>220K 20% 6.8K 20%</td><td>1/2W 1/2W</td><td></td></tr> <tr><th></th><th>*******</th><th>*****</th><th></th><th></th><th>R706 R707</th><th>1-202-561-00 <b>A</b>1-216-510-51</th><th>SOLID METAL OXIDE</th><th>330 20% 8.2K 5%</th><th>1/2₩ 5₩</th><th></th></tr> <tr><th></th><th>PACITOR&gt;</th><th>22005</th><th>10%</th><th>AVU.</th><th>R708 R709</th><th>1-247-807-31 1-247-807-31</th><th>CARBON</th><th>100 5% 100 5% 47K 5%</th><th>1/4W 1/4W 3W</th><th>F</th></tr> <tr><th>C701 1-162-115-00 C702 1-123-948-00 C703 1-102-050-00</th><td>ELECT</td><td>330PF 22MF 0.01MF</td><td>10% 20%</td><td>2KV 250V 500V</td><td>R711</td><td><b>▲</b>1-215-927-91 1-247-807-31</td><td></td><td></td><td>1/4W</td><td>F</td></tr> <tr><th>C704 1-162-115-00 C705 1-130-479-00</th><td>CERAMIC</td><td>330PF 0.0047MF</td><td>10% 5%</td><td>2KV 50V</td><td>R712 R714</td><td>1-249-421-11 1-249-401-11</td><td>CARBON CARBON</td><td>100 5% 2.2K 5% 47 5% 100 5% 68 5%</td><td>1/4W 1/4W 1/4W</td><td></td></tr> <tr><th>C706 1-101-006-00 C707 1-101-006-00</th><th></th><th>0.047MF 0.047MF</th><th></th><th>50V 50V</th><th>R716 R717</th><th>1-247-807-31 1-249-403-11</th><th></th><th></th><th>1/4W 1/4W</th><th></th></tr> <tr><th>C709 1-124-120-11 C710 1-124-120-11</th><td>L ELECT L ELECT</td><td>220MF 220MF</td><td>20% 20%</td><td>16V 16V</td><td>R718 R719</td><td>1-249-412-11 1-249-410-11</td><td>CARBON</td><td>390 5% 270 5%</td><td>1/4W 1/4W</td><td></td></tr> <tr><th>C711 1-102-114-00</th><td>) CERAMIC</td><td>470PF</td><td>10%</td><td>50V</td><td>R720 R721 R722</td><td>1-247-807-31 1-249-409-11 1-215-423-00</td><td>CARBON</td><td>100 5% 220 5% 1.2K 1%</td><td>1/4W 1/4W 1/4W</td><td></td></tr> <tr><th></th><th>ONNECTOR&gt;</th><th></th><th></th><th></th><th>R723</th><th>1-249-410-11</th><th>CARBON</th><th>270 5%</th><th>1/4W</th><th></th></tr> <tr><th>CR1 1-508-784-00</th><th>PIN, CONNECT</th><th>OR (5MM PI</th><th>TCH) 1P</th><th></th><th>R724</th><th>1-215-429-00</th><th>METAL</th><th>2.2K 1%</th><th>1/4W</th><th></th></tr>	ANSISTOR>				<tr.< th=""><th>ANSFORMER&gt;</th><th></th><th></th><th></th><th>Q701</th><th>8-729-119-78</th><th>TRANSISTOR 2</th><th>SC2785-HFE</th><th></th><th></th></tr.<>	ANSFORMER>				Q701	8-729-119-78	TRANSISTOR 2	SC2785-HFE			T601 A1-450-791-12	TRANSFORMER,	POWER ISOI	ATION.		Q702 Q703	8-729-119-80	TRANSISTOR 2: TRANSISTOR 2: SHEET (TRANS	SC2688-LK	1703		T603	TRANSFORMER	HEATER		e e e e e e e e e e e e e e e e e e e		4-382-854-11	SCREW (M3X10)	), P, SW (+);	Q703		1606 A1-421-372-21	TRANSFORMER,	FERRITE (I	.FT)	Andreas de la companya del companya del companya de la companya de	Q704 Q705 Q706	8-729-200-17	TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2:	SA1091-0			T608 &1-423-665-11	AND A COMPANY OF THE PARTY OF T	rowen			4100			3H1071 0				RISTOR>	100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to			P701	<re: 1-202-847-00</re: 	SISTOR>	560K 20%	1/2W		VDR601A1-809-786-11		******	******	*******	R702	1-202-814-11 1-202-818-00	SOLID SOLID	33K 20% 1K 20%	1/2W 1/2W		*A-1331-259-A	CR BOARD, CO				R704 R705	1-202-842-11 1-202-828-11	SOLID SOLID	220K 20% 6.8K 20%	1/2W 1/2W			*******	*****			R706 R707	1-202-561-00 <b>A</b> 1-216-510-51	SOLID METAL OXIDE	330 20% 8.2K 5%	1/2₩ 5₩			PACITOR>	22005	10%	AVU.	R708 R709	1-247-807-31 1-247-807-31	CARBON	100 5% 100 5% 47K 5%	1/4W 1/4W 3W	F	C701 1-162-115-00 C702 1-123-948-00 C703 1-102-050-00	ELECT	330PF 22MF 0.01MF	10% 20%	2KV 250V 500V	R711	<b>▲</b> 1-215-927-91 1-247-807-31			1/4W	F	C704 1-162-115-00 C705 1-130-479-00	CERAMIC	330PF 0.0047MF	10% 5%	2KV 50V	R712 R714	1-249-421-11 1-249-401-11	CARBON CARBON	100 5% 2.2K 5% 47 5% 100 5% 68 5%	1/4W 1/4W 1/4W		C706 1-101-006-00 C707 1-101-006-00		0.047MF 0.047MF		50V 50V	R716 R717	1-247-807-31 1-249-403-11			1/4W 1/4W		C709 1-124-120-11 C710 1-124-120-11	L ELECT L ELECT	220MF 220MF	20% 20%	16V 16V	R718 R719	1-249-412-11 1-249-410-11	CARBON	390 5% 270 5%	1/4W 1/4W		C711 1-102-114-00	) CERAMIC	470PF	10%	50V	R720 R721 R722	1-247-807-31 1-249-409-11 1-215-423-00	CARBON	100 5% 220 5% 1.2K 1%	1/4W 1/4W 1/4W			ONNECTOR>				R723	1-249-410-11	CARBON	270 5%	1/4W		CR1 1-508-784-00	PIN, CONNECT	OR (5MM PI	TCH) 1P		R724	1-215-429-00	METAL	2.2K 1%	1/4W	
ANSISTOR>																																																																																																																																																																																																					
<tr.< th=""><th>ANSFORMER&gt;</th><th></th><th></th><th></th><th>Q701</th><th>8-729-119-78</th><th>TRANSISTOR 2</th><th>SC2785-HFE</th><th></th><th></th></tr.<>	ANSFORMER>				Q701	8-729-119-78	TRANSISTOR 2	SC2785-HFE																																																																																																																																																																																													
T601 A1-450-791-12	TRANSFORMER,	POWER ISOI	ATION.		Q702 Q703	8-729-119-80	TRANSISTOR 2: TRANSISTOR 2: SHEET (TRANS	SC2688-LK	1703																																																																																																																																																																																												
T603	TRANSFORMER	HEATER		e e e e e e e e e e e e e e e e e e e		4-382-854-11	SCREW (M3X10)	), P, SW (+);	Q703																																																																																																																																																																																												
1606 A1-421-372-21	TRANSFORMER,	FERRITE (I	.FT)	Andreas de la companya del companya del companya de la companya de	Q704 Q705 Q706	8-729-200-17	TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2:	SA1091-0																																																																																																																																																																																													
T608 &1-423-665-11	AND A COMPANY OF THE PARTY OF T	rowen			4100			3H1071 0																																																																																																																																																																																													
	RISTOR>	100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to			P701	<re: 1-202-847-00</re: 	SISTOR>	560K 20%	1/2W																																																																																																																																																																																												
VDR601A1-809-786-11		******	******	*******	R702	1-202-814-11 1-202-818-00	SOLID SOLID	33K 20% 1K 20%	1/2W 1/2W																																																																																																																																																																																												
*A-1331-259-A	CR BOARD, CO				R704 R705	1-202-842-11 1-202-828-11	SOLID SOLID	220K 20% 6.8K 20%	1/2W 1/2W																																																																																																																																																																																												
	*******	*****			R706 R707	1-202-561-00 <b>A</b> 1-216-510-51	SOLID METAL OXIDE	330 20% 8.2K 5%	1/2₩ 5₩																																																																																																																																																																																												
	PACITOR>	22005	10%	AVU.	R708 R709	1-247-807-31 1-247-807-31	CARBON	100 5% 100 5% 47K 5%	1/4W 1/4W 3W	F																																																																																																																																																																																											
C701 1-162-115-00 C702 1-123-948-00 C703 1-102-050-00	ELECT	330PF 22MF 0.01MF	10% 20%	2KV 250V 500V	R711	<b>▲</b> 1-215-927-91 1-247-807-31			1/4W	F																																																																																																																																																																																											
C704 1-162-115-00 C705 1-130-479-00	CERAMIC	330PF 0.0047MF	10% 5%	2KV 50V	R712 R714	1-249-421-11 1-249-401-11	CARBON CARBON	100 5% 2.2K 5% 47 5% 100 5% 68 5%	1/4W 1/4W 1/4W																																																																																																																																																																																												
C706 1-101-006-00 C707 1-101-006-00		0.047MF 0.047MF		50V 50V	R716 R717	1-247-807-31 1-249-403-11			1/4W 1/4W																																																																																																																																																																																												
C709 1-124-120-11 C710 1-124-120-11	L ELECT L ELECT	220MF 220MF	20% 20%	16V 16V	R718 R719	1-249-412-11 1-249-410-11	CARBON	390 5% 270 5%	1/4W 1/4W																																																																																																																																																																																												
C711 1-102-114-00	) CERAMIC	470PF	10%	50V	R720 R721 R722	1-247-807-31 1-249-409-11 1-215-423-00	CARBON	100 5% 220 5% 1.2K 1%	1/4W 1/4W 1/4W																																																																																																																																																																																												
	ONNECTOR>				R723	1-249-410-11	CARBON	270 5%	1/4W																																																																																																																																																																																												
CR1 1-508-784-00	PIN, CONNECT	OR (5MM PI	TCH) 1P		R724	1-215-429-00	METAL	2.2K 1%	1/4W																																																																																																																																																																																												

The components identified by in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.
 Should replacement be required, replace only with the value originally used.

<sup>\* \* :</sup> Selected to yield optimum performance.

CR

CG

CB

Les composants identifiés par une trame et par une marque À sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.

<u> </u>						5,0000																																									
REF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARI																																				
						Q736	8-729-200-17	TRANSISTOR 2	SA1091-0																																						
	<spa< td=""><td>RK GAP&gt;</td><td></td><td></td><td></td><td>1</td><td><res< td=""><td>SISTOR&gt;</td><td></td><td></td><td></td></res<></td></spa<>	RK GAP>				1	<res< td=""><td>SISTOR&gt;</td><td></td><td></td><td></td></res<>	SISTOR>																																							
	1-519-422-11 1-519-422-11					R731	1-202-847-00		560K 20%	1/2W																																					
*****	*********	********	********	******	*******	1 10177	1-202-814-11 1-202-818-00	SOLID	33K 20% 1K 20%	1/2W 1/2W																																					
	*A-1331-260-A	CG BOARD, CU				R734 R735	1-202-842-11 1-202-828-11	SOLID	220K 20% 6.8K 20%	1/2W 1/2W																																					
	4-373-933-01 4-382-854-11	SHEET (TRANS SCREW (M3X10	ÍSTOR), BN ), P, SW (+	)		R736 R737 Z R738 R739	1-202-561-00 1-216-510-51 1-247-807-31 1-247-807-31	METAL OXIDE CARBON	330 20% 8:2% 5% 100 5% 100 5% 47% 5%	1/2W 5W 1/4W 1/4W	<b>F</b> F																																				
	<cap< td=""><td>ACITOR&gt;</td><td></td><td></td><td></td><td></td><td>A 1-215-927-91</td><td></td><td>47X - 5X</td><td>3W</td><td></td></cap<>	ACITOR>					A 1-215-927-91		47X - 5X	3W																																					
· C731	1-162-115-00		330PF	10%	2KV	R741 R742	1-247-807-31 1-249-421-11	CARBON CARBON	100 5% 2.2K 5%	1/4W 1/4W	F F																																				
C732 C733 C734	1-123-948-00 1-102-050-00 1-162-115-00	ELECT CERAMIC CERAMIC	22MF 0.01MF 330PF	20% 10%	250V 500V 2KV	R744 R745 R746	1-249-401-11 1-215-455-00 1-247-807-31	CARBON METAL CARBON	47 5% 27K 1% 100 5%	1/4W 1/4W 1/4W																																					
C735	1-130-479-00	MYLAR	0.0047MF	5%	50V	R747	1-249-403-11	CARBON	68 5% 390 5%	1/4W																																					
C736 C737 C739		CERAMIC CERAMIC ELECT	0.047MF 0.047MF	20%	50V	R748	1-249-412-11	CARBON CARBON	270 5%	1/4W 1/4W																																					
C740 C741	1-124-120-11 1-124-120-11 1-102-114-00	ELECT	220MF 220MF 470PF	20% 20% 10%	16V 16V 50V	R750 R751	1-247-807-31 1-249-409-11	CARBON CARBON	100 5% 220 5%	1/4W 1/4W																																					
0141	,		41011	10%		R752 R754	1-215-423-00 1-215-429-00	METAL METAL	1.2K 1% 2.2K 1%	1/4W 1/4W																																					
201		NECTOR>	IOD /FIME DIE	011) ID				DE 645																																							
CG1 CG3	1-508-784-00 *1-508-765-00	PIN, CONNECT	OR (5MM PIT	CH) 1P CH) 3P		50721		ARK GAP>																																							
Calo	*1-564-508-11	reod, connec	HUR OF			SG732	1-519-422-11 1-519-422-11	GAP, SPARK																																							
		KET>				*****	**********	********	*********	*****	*****																																				
CRT73	141-251-026-11	SOCKET, PICT	ORE TUBE	Estable (See)			*A-1331-261-A	CB BOARD, C																																							
	<010	DDE>					4-373-933-01 4-382-854-11	SHEET (TRANS	SISTOR), BN D), P, SW (+)																																						
D731 D732	8-719-911-19 8-719-911-19	DIODE 188119 DIODE 188119					4-302-034-11	JUNEW (MJAI)	υ), Γ, 5w (†)																																						
D733 D734	8-719-911-19 8-719-911-19	DIODE ISSII9 DIODE ISSII9	)				<cai< td=""><td>PACITOR&gt;</td><td></td><td></td><td></td></cai<>	PACITOR>																																							
D735	8-719-911-19	DIODE 188119	)			C762	1-162-115-00 1-123-948-00	ELECT	330PF 22MF	10% 20%	2KV . 250V																																				
	8-719-911-19 8-719-911-19					C763	1-102-050-00 1-162-115-00	CERAMIC	0.01MF 330PF	10%	500V 2KV																																				
	<011	18	-			C765	1-130-479-00	MYLAR	0.0047MF	5%	50V																																				
L731	<01 1-408-429-00		470UH			C766 C767 C769	1-101-006-00 1-101-006-00 1-124-120-11	CERAMIC CERAMIC ELECT	0.047MF 0.047MF	20%	50V 50V 16V																																				
L732 L734	1-249-470-11 1-408-413-00	CARBON	0.47 5% 22UH	1/2W	F	C770	1-124-120-11 1-124-120-11 1-102-114-00	ELECT	220MF 220MF 470PF	20% 10%	16V 50V																																				
	, MBC									20%																																					
WI 721		IN- LAMP NEON				i and		NNECTOR>	mon /FWW nime	II) 10																																					
	1-519-108-99 1-519-108-99			•		CB1 CB3 CB4	1-508-784-00 *1-508-765-00 1-564-511-11	PIN, CONNEC PIN, CONNEC PING CONNE	IUK (SMM PITC TOR (SMM PITC CTOR 8P	n) 1P H) 3P																																					
	<tr <="" td=""><td>ANSISTOR&gt;</td><td></td><td></td><td></td><td>CB5</td><td>1-564-511-11 *1-564-508-11</td><td>PLUG, CONNE</td><td>CTOR 8P</td><td></td><td></td></tr> <tr><td>0731</td><td>8-729-119-78</td><td>TRANSISTOR 2</td><td>2SC2785-HFE</td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>Q732 Q733</td><td>8-729-119-78 8-729-119-80</td><td>TRANSISTOR 2</td><td>2SC2688-LK</td><td></td><td></td><td>(Chines)</td><td></td><td>CKET&gt;</td><td>THE THE</td><td></td><td>FWYYSELUS</td></tr> <tr><td>Q734 Q735</td><td>8-729-255-12 8-729-200-17</td><td>TRANSISTOR 2 TRANSISTOR 2</td><td>25A1091-0</td><td></td><td></td><td>LR1/6</td><td><u>IAI-251-026-11</u></td><td>SUCKET, PIC</td><td>IORE TUBE</td><td></td><td></td></tr>	ANSISTOR>				CB5	1-564-511-11 *1-564-508-11	PLUG, CONNE	CTOR 8P			0731	8-729-119-78	TRANSISTOR 2	2SC2785-HFE			1						Q732 Q733	8-729-119-78 8-729-119-80	TRANSISTOR 2	2SC2688-LK			(Chines)		CKET>	THE THE		FWYYSELUS	Q734 Q735	8-729-255-12 8-729-200-17	TRANSISTOR 2 TRANSISTOR 2	25A1091-0			LR1/6	<u>IAI-251-026-11</u>	SUCKET, PIC	IORE TUBE		
ANSISTOR>				CB5	1-564-511-11 *1-564-508-11	PLUG, CONNE	CTOR 8P																																								
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Q732 Q733	8-729-119-78 8-729-119-80	TRANSISTOR 2	2SC2688-LK			(Chines)		CKET>	THE THE		FWYYSELUS																																				
Q734 Q735	8-729-255-12 8-729-200-17	TRANSISTOR 2 TRANSISTOR 2	25A1091-0			LR1/6	<u>IAI-251-026-11</u>	SUCKET, PIC	IORE TUBE																																						

The components identified by shading and mark  $\hat{\Lambda}$  are critical for safety. Replace only with part number specified.





REF.NO. PART NU.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
<010	DE>			1	*A-1341-726-A	D BOARD, COM			
D761 8-719-911-19 D762 8-719-911-19 D763 8-719-911-19 D764 8-719-911-19 D765 8-719-911-19	DE> DIODE 188119 DIODE 188119 DIODE 188119 DIODE 188119 DIODE 188119 DIODE 188119				4-382-854-11				
	DIODE 155119			ron1			10MF	20%	16V
D768 8-719-911-19	DIODE 155119 DIODE RD4.7ESB2			C902 C903 C904 C905	/1-126-320-11 1-124-477-11 1-130-471-00 1-130-471-00 1-124-477-11	II Y DIEGO	47MF 0.001MF 0.001MF 47MF	20% 5% 5% 20%	16V 50V 50V 16V
<001				C906			22MF	20%	50V
L761 1-408-429-00 L762 1-249-470-11 L764 1-408-413-00	CARBON 0.47 5%	1/2W	F	C907 C908	1-126-101-11 1-124-907-11 1-130-483-00 1-131-341-00		100MF 10MF 0.01MF 0.1MF	20% 20% 5% 20%	16V 50V 50V 16V
<neo< td=""><td>N LAMP&gt;</td><td></td><td></td><td>C912 C913</td><td>1-124-903-11</td><td></td><td>1MF 22MF</td><td>20% 20%</td><td>50V 50V</td></neo<>	N LAMP>			C912 C913	1-124-903-11		1MF 22MF	20% 20%	50V 50V
NL761 1-519-108-99 NL762 1-519-108-99				C914 C915 C916	1-126-233-11 1-126-803-11 1-124-927-11 1-102-074-00	ELECT ELECT ELECT CERAMIC	47MF 4.7MF 0.001MF	20% 20% 10%	16V 50V 50V
<tra< td=""><td>NSISTOR&gt;</td><td></td><td></td><td>C917 C918</td><td>1-130-471-00 1-102-963-00</td><td>MYLAR CERAMIC</td><td>0.001MF 33PF</td><td>5% 5%</td><td>50V 50V</td></tra<>	NSISTOR>			C917 C918	1-130-471-00 1-102-963-00	MYLAR CERAMIC	0.001MF 33PF	5% 5%	50V 50V
<b>Q762</b> 8-729-119-78	TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE			C919 C920	1-102-963-00 1-102-963-00	CERAMIC CERAMIC	33PF 33PF	5% 5% 5% 5%	50V 50V
<b>Q764</b> 8-729-255-12	TRANSISTOR 2SC2688-LK Transistor 2SC2551-0			C921	1-102-963-00	CERAMIC	33PF		50V
<b>Q765</b> 8-729-200-17	TRANSISTOR 2SA1091-0			C922 C923	1-102-963-00 1-102-963-00	CERAMIC CERAMIC	33PF 33PF	5% 5% 5%	50V 50V
Q766 8-729-200-17	TRANSISTOR 2SA1091-0			C931 C932 C933	1-102-973-00 1-124-903-11 1-126-233-11	CERAMIC ELECT ELECT	100PF 1MF 22MF	20% 20%	50V 50V 25V
<res< td=""><td>SISTOR&gt;</td><td></td><td></td><td>C934</td><td>1-126-233-11</td><td>ELECT</td><td>22MF</td><td>20%</td><td>25V</td></res<>	SISTOR>			C934	1-126-233-11	ELECT	22MF	20%	25V
R761 1-202-847-00 R762 1-202-814-11	SOLID 33K 20%	1/2W 1/2W		C935 C936	1-126-233-11	ELECT Elect	22MF 22MF	20% 20%	25V 25V
R764 1-202-842-11	SOLID 220K 20%	1/2W 1/2W		C937 C938	1-126-233-11 1-126-233-11	ELECT ELECT	22MF 22MF	20% 20%	25V 25V
	SOLID 6.8K 20%	1/2W		C939 C940	1-126-233-11 1-126-233-11	ELECT	22MF 22MF	20% 20%	25V 25V
R766 1-202-561-00 R767 1-216-510-51 R768 1-247-807-31	METAL DXIDE 8.2K 5%	5W 1/4W	F T	C941 C942	1-102-123-00	CERAMIC	0.0033MF 0.0033MF	10% 10%	50V 50V
R769 1-247-807-31	CARBON 100 5% CARBON 100 5% METAL OXIDE 47K 5%	1 / / []	F F	C943	1-102-123-00 1-102-123-00	CERAMIC	0.0033MF	10%	5ŏv
R771 1-247-807-31		1/4W	F	C1701 C1702	1-124-907-11 1-124-907-11	ELECT	10MF 10MF	20% 20% 20%	50V 50V
R772 1-249-421-11 R773 1-249-413-11	CARBON 100 5% CARBON 2.2K 5% CARBON 470 5% CARBON 47 5% CARBON 100 5%	1/4W 1/4W	F	C1703 C1704	1-124-907-11 1-124-667-11	ELECT ELECT	10MF 10MF	20%	50¥ 50¥
R774 1-249-401-11 R776 1-247-807-31	CARBON 47 5% CARBON 100 5%	1/4W 1/4W		C1705	1-102-963-00 1-102-963-00	CERAMIC CERAMIC	33PF 33PF	5% 5%	50V 50V
R777 1-249-403-11 R778 1-249-412-11	CARBON 68 5% CARBON 390 5%	1/4W 1/4W		C1707 C1708	1-102-963-00 1-102-963-00	CERAMIC CERAMIC	33PF 33PF	5% 5% 5% 5%	50V 50V
R779 1-249-415-11 R780 1-247-807-31	CARBON 680 5% CARBON 100 5%	1/4W 1/4W		C1709	1-102-963-00 1-102-963-00	CERAMIC CERAMIC	33PF 33PF	5% 5%	50V 50V
R781 1-249-409-11		1/4W		C1711	1-126-233-11	ELECT	22MF	20%	50V
R782 1-215-423-00 R783 1-215-433-00 R784 1-215-429-00	METAL 1.2K 1% METAL 3.3K 1% METAL 2.2K 1%	1/4W 1/4W		C1712	1-126-233-11 1-131-353-00	ELECT TANTALUM ELECT	22MF 10MF 220MF	20% 10% 20%	25V 25V 25V
R785 1-215-418-00	METAL 2.2K 17 METAL 750 17	1/4W 1/4W		C1714 C1715	1-124-120-11 1-124-478-11	ELECT	100MF	20%	25V
<sp <="" td=""><td>ARK GAP&gt;</td><td></td><td></td><td>C1716 C1717</td><td>1-126-803-11 1-126-803-11</td><td>ELECT ELECT</td><td>47MF 47MF</td><td>20% 20%</td><td>25V 25V</td></sp>	ARK GAP>			C1716 C1717	1-126-803-11 1-126-803-11	ELECT ELECT	47MF 47MF	20% 20%	25V 25V
SG761 1-519-422-11	GAP, SPARK		•	C1718	1-131-353-00 1-126-233-11	TANTALUM ELECT	10MF 22MF	10% 20%	25V 25V
SG762 1-519-422-11	GAP, SPARK ************************************	*****	******	C1720	1-130-491-00 1-130-491-00		0.047MF 0.047MF	5% 5%	50V 50V
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Les composants identifiés par une trame et par une marque A sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.

REF.NO. PAR	T NO.	DESCRIPTION			REMARK	REF.NO.	. PAR	T NO.		DESCRIPTIO	N			REMARK
C1726 1-1	02-963-00		33PF 100MF 33PF 33PF 0.027MF	5% 20% 5% 5%	50V 35V 50V 50V 200V	D-2   D-3	*1-5 *1-5	64-510-1 64-511-5 64-512-1	11 P 51 P	CTOR> PLUG, CONNE PLUG, CONNE PLUG, CONNE PLUG, CONNE	CTOR 8P CTOR 9P			
C1730 1-1 C1731 1-1 C1732 1-1 C1733 1-1 C1734 1-1	24-122-11 06-377-00 02-963-00	CERANIC ELECT MYLAR CERANIC CERANIC	33PF 100MF 0.027MF 33PF 33PF	5% 20% 5% 5%	50V 35V 200V 50V 50V	D-5 D-6 D-7 D-8	*1-5 1-6 *1-5 *1-5	64-511-5 91-169-1 64-507-1 64-506-1	51 P 11 P 11 P	PLUG, CONNEC PLUG, CONNEC PLUG, CONNE	TOR 12P CTOR 4P CTOR 3P			
C1735 1-1 C1736 1-1 C1737 1-1 C1738 1-1 C1739 1-1	06-377-00 24-937-11 24-122-11	ELECT MYLAR ELECT ELECT FILM	100MF 0.027MF 10MF 100MF 0.01MF	20% 20% 20% 5%	35V 200V 16V 35V 50V	D-14	*1-5	64-513-1 <f< td=""><td>11 F Fuse&gt;</td><td></td><td>CTOR 10P</td><td></td><td>non d'Elle d' When</td><td>· · · · · · · · · · · · · · · · · · ·</td></f<>	11 F Fuse>		CTOR 10P		non d'Elle d' When	· · · · · · · · · · · · · · · · · · ·
C1742 1-1 C1744 1-1	24-122-11 26-104-11	ELECT ELECT ELECT ELECT ELECT	100MF 100MF 470MF 220MF 100MF	20% 20% 20% 20% 20%	35V 35V 35V 25V 25V	F901 F902	▲ 1-5 1-5 ▲ 1-5 1-5	76-107-2 33-223-1 76-107-2 33-223-1	22 F 11 ( 22 F 11 (	FUSE 3.15A/ CLIP, FUSE; FUSE 3.15A/ CLIP, FUSE;	250V F901 250V F902			when he had been been been been been been been bee
C1755 1-1	.06-220-00 .06-220-00	MYLAR MYLAR	0.1MF 0.1MF	10% 10%	100V 100V	10901	8-7		IC> 58	IC UPC45580	;			
C1757 1-1 C1758 1-1	06-220-00 106-220-00 106-220-00	MYLAR MYLAR MYLAR	0.1MF 0.1MF 0.1MF	10% 10% 10%	100V 100V 100V	IC902 IC903	8-7 8-7 8-7	52-033-6 59-701-5 59-701-6 59-701-8	68   56   65	IC CXA1268F IC NJM78MO5 IC NJM79MO5 IC NJM7915F	FA FA			
C1763 1-1 C1764 1-1 C1765 1-1	06-220-00 24-907-11 124-477-11 124-477-11 126-101-11	MYLAR ELECT ELECT ELECT ELECT	0.1MF 10MF 47MF 47MF 100MF	10% 20% 20% 20% 20%	100V 50V 16V 16V 16V	IC906 IC907 IC908 IC910	8-7 8-7 8-7 8-7	/59-148-8 /59-140-9 /59-145-9	84   53   58   40	IC UPC2415H IC UPD4053H IC UPC45580 IC PA0036 IC M5220L	IF BC			
C1770 1-1 C1771 1-1 C1772 1-1	24-907-11 130-495-00 124-907-11 124-907-11 102-074-00	ELECT MYLAR ELECT ELECT CERAMIC	10MF 0.1MF 10MF 10MF 0.001MF	20% 5% 20% 20% 10%	50V 50V 50V 50V 50V	IC170: IC170: IC170: IC170:	2 8-7 3 8-7 4 8-7 5 8-7	759-602-1	19 19 16 16	IC M5220L IC M5220L IC STK4278- IC STK4278- IC UPC1498I	-L			
C1924 1-1	126-233-11	ELECT	22MF	20%	25V	IC170	7 8-7	759-113-1	13	IC UPC14981 IC UPC14981	1			
D901 8-7	<dio< td=""><td>DE&gt; DIODE 188119</td><td></td><td></td><td></td><td>IC170</td><td>9 8-7 0 8-7</td><td>759-145-! 759-145-!</td><td>58 58</td><td>IC UPC45580 IC UPC45580 IC UPC45580</td><td></td><td></td><td></td><td></td></dio<>	DE> DIODE 188119				IC170	9 8-7 0 8-7	759-145-! 759-145-!	58 58	IC UPC45580 IC UPC45580 IC UPC45580				
D902 8-7 D1702 8-7 D1704 8-7	719-911-19 719-911-19 719-900-95	DIODE 1SS119 DIODE 1SS119 DIODE VO9G DIODE VO9G				10171	5 8-7	759-145-	58	IC UPC45580 IC UPC45580	C			
D1707 8-7	719-911-19	DIODE VO9G DIODE 188119							COIL		/	<b>a</b> )		
D1709 8-7	719-911-19 719-911-19 719-911-19	DIODE 1SS119 DIODE 1SS119 DIODE 1SS119				L901 L902 L903 L904	1-4	459-313- 459-313-	00	COIL WITH COIL WITH COIL WITH COIL WITH	CORE (HW CORE (HW	C) C)		
D1712 8-1	719-911-19 719-911-19 719-911-19	DIODE 188119 DIODE 188119 DIODE 188119						<	TRAN	SISTOR>				
D1714 8-1	719-911-19	DIODE 188119 DIODE 188119	)			Q902 Q906	8-	729-900- 729-119-	89 78	TRANSISTOR TRANSISTOR	DTC144E 25C2785	S -HFR		
D1717 8-' D1718 8-' D1720 8-'	719-911-19 719-109-50	DIODE 188119 DIODE 188119 DIODE 188119 DIODE RD2.08 DIODE RD2.08	SB1			Q907 Q908 Q909	8-1 8-1	729-119- 729-900- 729-119- 729-119-	-78 -89 -78	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	2SC2785 DTC144E 2SC2785	-HFE S -HFE		
D1722 8-	719-109-50	DIODE RD2.06 DIODE RD2.06 DIODE RD2.06	SB1			0911 0912	8-	729-119-	-76	TRANSISTOR TRANSISTOR	2SA1175	-HFE		
22.22								<	RESI	STOR>				
						R901	1-	215-463-	-00	METAL	56K	1%	1/4W	

The components identified by shading and mark A are critical for safety.

Replace only with part number specified.

Les composants identifiés par une trame et par une marque A sont: d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.



REF.NO. PART NO.	DESCRIPTION		REMARK	REF.NO. PAF	RT NO.	DESCRIPTION			REMARK
R902 1-215-463-00 R903 1-215-449-00 R904 1-215-455-00 R905 1-215-449-00 R906 1-215-469-00	METAL 56K METAL 15K METAL 27K METAL 15K METAL 100	1 1 1/4W 1 1 1 1/4W 2 1 2 1/4W 3 1 3 1/4W 3 1 3 1/4W		R967 1-2 R968 1-2 R969 1-2 R970 Ax 1-2	215-421-00 215-437-00 249-421-11 215-909-71	METAL CARBON METAL OXIDE CARBON CARBON CARBON	1K 4.7K 2.2K 47 2.2K	1% 1 1% 1 5% 1 5% 3	/4W /4W /4W W F /4W
R907 1-215-469-00 R908 1-215-469-00 R909 1-215-473-00 R910 1-215-437-00 R911 1-215-453-00	METAL 1001 METAL 1501 METAL 4.71 METAL 22K	7K 1% 1/4W K 1% 1/4W		R974 1-7 R975 1-7 R976 1-7	215-399-00 215-399-00 215-399-00	METAL METAL METAL	15K 15K 120 120 120	1% 1 1% 1 1% 1	/4W /4W /4W /4W /4W
R912 1-215-453-00 R913 1-215-437-00 R914 1-215-453-00 R915 1-215-421-00 R916 1-215-457-00 R917 1-215-453-00	METAL 22K METAL 1K METAL 33K	X 1% 1/4W 1% 1/4W X 1% 1/4W		R978 1-1 R979 1-1 R980 1-1	215-399-00 215-399-00 215-399-00 215-399-00 215-399-00 249-431-11	METAL METAL METAL METAL		1% 1 1% 1 1% 1 1% 1	/4W /4W /4W /4W /4W
R919 1-215-399-00 R920 1-215-399-00 R921 1-215-399-00 R922 1-215-399-00 R923 1-215-441-00	METAL 120 METAL 120 METAL 120 METAL 120	DR 16 1/4W		1 11701 1	249-431-11 214-804-11 214-804-11 214-804-11 215-421-00	CARBON METAL METAL METAL		5% 1 1% 1 1% 1	1/4W 1/2W 1/2W 1/2W 1/4W
R924 1-215-441-00 R925 1-215-441-00 R926 1-215-463-00 R927 1-215-463-00 R928 1-215-461-00	METAL 6.8 METAL 6.8 METAL 56K METAL 56K	8K 1% 1/4W 8K 1% 1/4W K 1% 1/4W K 1% 1/4W		R988 1- R989 1- R990 1- R991 1- R992 1-	215-421-00 215-421-00 215-421-00 215-421-00 215-421-00	METAL METAL METAL	1 K 1 K 1 K 1 K 1 K	1% 1 1% 1 1% 1	/4W  /4W  /4W  /4W  /4W
R929 1-215-433-00 R930 1-215-433-00 R931 1-215-433-00 R932 1-215-433-00	METAL 3.3 METAL 3.3 METAL 3.3	3K 1% 1/4W		R993 1-	249-429-11 249-429-11 215-457-00 215-467-00 215-417-00	CARBON METAL	10K 10K 33K 82K 680	5% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W
R934 1-215-433-00 R935 1-215-439-00 R936 1-215-439-00 R937 1-215-439-00 R938 1-215-417-00 R939 1-215-433-00	METAL 5.6 METAL 5.6 METAL 5.6	6K 12 1/4W 6K 12 1/4W 0 12 1/4W		R1701 1- R1702 1- R1703 1- R1704 1-	215-455-00 249-411-11 -249-427-11 -249-427-11 -249-411-11	CARBON Carbon	27K 330 6.8K 6.8K 330	5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W
R940 1-215-429-00 R941 1-215-441-00 R942 1-215-451-00 R943 1-215-441-00	METAL 2.2 METAL 6.8 METAL 18K	8K 17 1/4W K 1% 1/4W		R1706 1- R1707 1- R1708 1- R1709 1-	-249-427-11 -249-427-11	CARBON CARBON CARBON CARBON	330 6.8K 330 6.8K 6.8K	5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W
R945 1-215-445-00 R946 1-215-445-00 R947 1-215-439-00 R948 1-215-447-00	METAL 108 METAL 5.6 METAL 128	6K 1% 1/4W K 1% 1/4W		R1712 1- R1713 1-	-249-411-11 -249-411-11 -249-427-11 -215-886-71 -249-411-11	CARBON CARBON CARBON METAL OXIDE CARBON	330 330 6.8K 100 330	5% 5% 5%	1/4W 1/4W 1/4W 2W F 1/4W
R949 1-215-439-00 R950 1-215-429-00 R951 1-215-429-00 R952 1-215-429-00 R953 1-215-439-00 R954 1-215-439-00	METAL 2.2 METAL 2.2 METAL 2.3 METAL 5.6	2K 1% 1/4W 2K 1% 1/4W 2K 1% 1/4W		R1716 ▲ 1- R1717 1- R1718 1-	-249-411-11 -215-886-71 -249-411-11 -249-417-11 -214-792-00	CARBON METAL OXIDE CARBON CARBON METAL	330 100 330 1K 1	5% 5% 5%	1/4W 2W F 1/4W 1/4W 1/2W
R955 1-215-435-00 R956 1-215-437-00 R957 1-215-441-00 R958 1-215-437-00 R959 1-215-439-00	METAL 3.9 METAL 4.7 METAL 6.8 METAL 4.7	9K 1Z 1/4W 7K 1Z 1/4W 8K 1Z 1/4W 7K 1Z 1/4W		R1721 1- R1722 1- R1723 1-	-249-411-11 -249-417-11 -249-411-11 -249-417-11 -215-886-71	CARBON CARBON CARBON CARBON METAL OXIDE	330 1K 330 1K 100	5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W
R960 1-215-439-00 R961 1-215-439-00 R962 1-215-441-00 R963 1-215-441-00 R964 1-215-441-00	METAL 5.0 METAL 5.0 METAL 6.1 METAL 6.1 METAL 6.1 METAL 6.1	6K 1Z 1/4W 6K 1Z 1/4W 8K 1Z 1/4W 8K 1Z 1/4W		R1726 A 1 R1727 1- R1728 1- R1729 1-	-215-886-71 -214-792-00 -214-792-00 -214-792-00	METAL METAL	100 100 1 1 1	5% 1% 1% 1%	2W F 2W F 1/2W 1/2W 1/2W
R965 <u>A</u> 1-215-909-71 R966 1-215-469-00	METAL OXIDE 47		<b>R</b>	R1730 1- R1731 1-	-247-807-31 -249-417-11	CARBON CARBON	100 1K		1/4W 1/4W

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REF.NO. PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
R1732 1-247-807-31 R1733 1-247-807-31 R1734 1-247-807-31 R1735 1-247-807-31 R1736 1-249-423-11 R1737 1-249-423-11				1/4W 1/4W 1/4W 1/4W 1/4W			1-247-807-31 1-249-429-11 1-249-423-11 1-247-807-31 1-215-439-00 1-215-439-00			5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
R1738 1-249-423-11 R1739 1-249-423-11 R1740 1-249-417-11 R1741 1-249-423-11 R1742 1-249-423-11 R1743 1-249-417-11		3.3K 3.3K 3.3K 1K 3.3K 3.3K	5% 5% 5%	1/4W 1/4W 1/4W		R1803 R1805 R1806 R1807	1-215-439-00 1-215-439-00 1-247-807-31 1-247-807-31	METAL METAL CARBON CARBON	5.6K 5.6K 100 100	1% 1% 5% 1%	1/4W 1/4W 1/4W 1/4W 1/2W	
R1744 1-249-411-11 R1745 1-247-807-31 R1746 1-214-792-00 R1747 1-215-886-71 R1748 1-215-421-00	METAL OXIDE	1.0	5% 1%	1/4W		i	1-214-792-00 1-214-792-00 1-214-792-00 1-214-792-00 1-214-792-00 1-214-792-00 1-249-431-11			1% 1% 1% 1% 1%	1/2W 1/2W 1/2W 1/2W 1/2W	
R1750 1-215-421-00 R1751 1-215-421-00 R1752 1-215-421-00 R1753 1-215-421-00 R1754 1-214-792-00	METAL METAL METAL METAL		17 17 17 17 17 17	1/4W 1/4W 1/4W 1/4W 1/4W 1/2W		R1815 R1816 R1817 R1818	1-249-431-11 1-247-885-00 1-249-431-11 1-247-885-00 1-247-807-31 1-215-437-00 1-215-437-00 1-215-445-00 1-215-445-00	CARBON CARBON CARBON CARBON CARBON	15K 180K 100	5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
R1756 1-215-443-00 R1757 1-215-437-00 R1758 1-215-437-00 R1759 1-247-807-31 R1760 1-249-427-11	METAL METAL CARBON		1% 1% 1% 1% 5% 5%	1/4W 1/4W 1/4W		R1824 R1825	1-215-433-00 1-215-433-00	METAL METAL			1/4W 1/4W 1/4W 1/4W 1/4W 1/4W	
R1762 1-215-445-00 R1763 1-249-427-11 R1764 1-249-419-11	METAL CARBON CARBON CARBON CARBON	10K 6.8K 1.5K 1.5K 6.8K	1% 5% 5% 5% 5%	1/4W 1/4W 1/4W		R1829 R1830 R1831	1-249-434-11 1-249-434-11 1-247-807-31	CARBON CARBON CARBON	27K 27K 100	111 5555111	1/4W 1/4W 1/4W 1/4W 1/4W 1/4W	
R1767 1-249-427-11 R1768 1-249-439-11 R1769 1-215-445-00 R1770 1-247-807-31 R1771 1-247-807-31 R1772 1-215-429-00		6.8K 68K 10K 100 100		1/4W 1/4W 1/4W 1/4W		R1833 R1834 R1835	1-215-471-00 1-215-471-00 1-215-471-00 1-215-437-00 1-215-421-00 1-249-431-11	METAL METAL METAL	120K 120K 4.7K 4.7K 1.7K 1.7K	1%	1/4W 1/4W 1/4W 1/4W 1/4W	
R1773 1-215-429-00 R1774 1-215-421-00 R1775 1-249-429-11 R1776 1-215-421-00 R1777 1-249-423-11 R1778 1-215-421-00	METAL.	2.2K 1K 10K 1K 3.3K	5% 1% 5%	1/4W 1/4W 1/4W 1/4W		R1839 R1858 R1859 R1860	1-249-431-11 1-215-445-00	CARBON METAL METAL METAL		5% 1% 1% 1%	1/4W 1/4W 1/4W	
R1779 \( \text{1-215-898-71} \) R1780 \( 1-214-804-11 \) R1781 \( 1-214-804-11 \) R1782 \( \text{1-215-898-71} \) R1783 \( 1-214-804-11 \) R1784 \( 1-214-804-11 \)	METAL METAL	10K 3.3 3.3 10K 3.3 3.3	17 57 17 17 17 57 17	1/2W 1/2W		R1862 R1863 R1864 R1865 R1866	1-215-397-00 1-215-437-00 1-215-453-00 1-215-453-00	METAL METAL METAL METAL	22K 100 4.7K 22K 22K	1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W	
R1785 \(\textit{A}\) 1-215-898-71 R1786			1% 5% 1% 1% 5% 5% 5%	1/2W 1/2W 1/2W 1/4W 1/4W 1/4W	Bor Public State Services	R1868 R1869 R1870 R1871	1-215-449-00 1-215-445-00 1-215-445-00 1-215-445-00 1-215-437-00	METAL METAL METAL METAL	15K 10K 10K 10K 10K 4.7K 4.7K	1% 1% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W	
R1791 1-249-429-11 R1792 1-215-445-00 R1793 1-247-807-31 R1794 1-215-429-00 R1795 1-249-433-11	CARBON METAL CARBON METAL	10K 10K 100 2.2K 22K	5% 1% 5%	1/4W 1/4W 1/4W 1/4W 1/4W		R1874 R1875 R1876	1-215-437-00 1-215-437-00	METAL METAL METAL METAL	4.7K 4.7K 4.7K 4.7K 180K	1% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W	



REF.NO. PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION		REMARK
	METAL 471	OK 1% 1/4W OK 1% 1/4W K 1% 1/4W K 1% 1/4W K 1% 1/4W		RV914 RV915 RV916 RV917	1-241-630-11 1-241-630-11 1-241-765-11 1-241-765-11	RES, ADJ, CARBON RES, ADJ, CARBON RES, ADJ, CARBON RES, ADJ, CARBON	10K 10K 22K 22K	
	METAL 100 METAL 101 METAL 271 METAL 100	0 1% 1/4W K 1% 1/4W K 1% 1/4W 0 1% 1/4W		RV918 RV919 RV920	1-241-765-11 1-241-765-11 1-241-765-11 1-241-765-11	RES, ADJ, CARBON RES, ADJ, CARBON RES, ADJ, CARBON RES, ADJ, CARBON	22K 22K 22K 22K	
R1888 1-215-461-00 R1889 1-215-457-00 R1890 1-215-449-00 R1891 1-215-443-00	METAL 331 METAL 151 METAL 8.1	K 1% 1/4W K 1% 1/4W K 1% 1/4W 2K 1% 1/4W		RV922 RV923 RV924 RV925	1-241-765-11 1-241-765-11 1-241-765-11	RES, ADJ, CARBUN RES, ADJ, CARBON RES, ADJ, CARBON RES, ADJ, CARBON	22K 22K 22K 22K	
R1892 1-215-445-00 R1894 1-215-429-00 R1895 1-215-445-00 R1896 1-215-445-00 R1897 1-215-449-00	METAL 10 METAL 10	2K 1% 1/4W 2K 1% 1/4W 0K 1% 1/4W 0K 1% 1/4W		RV926 RV927 RV928 RV929 RV930	1-241-765-11 1-241-765-11 1-241-765-11 1-241-630-11	RES, ADJ, CARBON RES, ADJ, CARBON	22K 10K 22K 10K	
R1898 1-215-445-00 R1899 1-215-421-00 R1900 1-215-429-00 R1901 1-215-449-00		1% 1/4W		RV932 RV933 RV934 RV935	1-241-765-11 1-241-765-11 1-241-765-11 1-241-765-11	RES, ADJ, CARBON RES, ADJ, CARBON RES, ADJ, CARBON RES, ADJ, CARBON	22K 22K 22K 22K	
R1902 1-215-445-00 R1903 1-215-445-00 R1904 1-215-445-00 R1905 1-215-445-00	METAL 10 METAL 10 METAL 10			RV936 RV937 RV938 RV939	1-241-765-11 1-241-630-11 1-241-630-11 1-241-630-11	RES, ADJ, CARBON RES, ADJ, CARBON RES, ADJ, CARBON RES, ADJ, CARBON RES, ADJ, CARBON	22K 10K 10K 10K	
R1906 1-215-429-00 R1907 1-215-445-00 R1908 1-215-445-00 R1909 1-215-445-00 R1910 1-215-445-00	METAL 10 METAL 10 METAL 10			RV940 RV941 RV942 RV943	1-241-765-11 1-241-765-11 1-241-765-11 1-241-765-11 1-241-765-11 1-241-765-11	RES, ADJ, CARBON RES, ADJ, CARBON RES, ADJ, CARBON RES, ADJ, CARBON RES, ADJ, CARBON	22K 22K 22K	
R1911 1-215-453-00 R1916 1-215-423-00 R1920 1-215-453-00	METAL 22 METAL 1. METAL 22 METAL 10			RV945 RV946 RV947 RV948	1-241-765-11 1-241-765-11 1-241-765-11 1-241-765-11	RES, ADJ, CARBON RES, ADJ, CARBON RES, ADJ, CARBON RES, ADJ, CARBON RES, ADJ, CARBON RES, ADJ, CARBON	22K	
R1922 1-215-445-00 R1924 1-215-429-00 R1925 1-215-429-00 R1926 1-215-429-00 R1927 1-215-445-00	METAL 2. METAL 2. METAL 2.	OK 1% 1/4W .2K · 1% 1/4W .2K 1% 1/4W .2K 1% 1/4W OK 1% 1/4W		1 11770	1-241-100-11	RES, AUS, CARDON	22h	
R1928 1-215-421-00 R1929 1-215-445-00 R1930 1-215-397-00 R1931 1-215-397-00	METAL       1K         METAL       10         METAL       10         METAL       10	K 1% 1/4W DK 1% 1/4W DO 1% 1/4W DO 1% 1/4W		RV958	1-241-765-11	RES, ADJ, CARBON RES, ADJ, CARBON RES, ADJ, CARBON RES, ADJ, CARBON RES, ADJ, CARBON	22K	
R1932 1-215-453-00 R1933 1-215-453-00 R1934 1-215-429-00 R1937 1-215-445-00	METAL 22 METAL 2.	2K 1% 1/4W 2K 1% 1/4W .2K 1% 1/4W 0K 1% 1/4W		RV959 RV961 RV962 RV963	1-241-765-11 1-241-765-11 1-241-765-11	RES, ADJ, CARBON RES, ADJ, CARBON RES, ADJ, CARBON	22K   22K   22K	
	TABLE RESISTOR>	N SOF		RV965 RV966 RV967	1-241-765-11 1-241-765-11 1-241-765-11	RES, ADJ, CARBON RES, ADJ, CARBON RES, ADJ, CARBON	22K   22K   22K	
RV901 1-241-765-11 RV902 1-241-765-11 RV903 1-241-765-11 RV904 1-241-765-11 RV905 1-241-765-11	RES, ADJ, CARBON RES, ADJ, CARBON RES, ADJ, CARBON RES, ADJ, CARBON RES, ADJ, CARBON	N 22K N 22K N 22K		RV970	1-241-765-11 1-241-765-11 1-241-765-11 1-241-765-11 1-241-765-11	RES, ADJ, CARBON RES, ADJ, CARBON RES, ADJ, CARBON	1 22K 1 22K 1 22K	
RV906 1-241-765-11 RV907 1-241-765-11 RV908 1-241-765-11 RV909 1-241-765-11 RV910 1-241-765-11	RES, ADJ, CARBON	N 22K N 22K N 22K		RV973 RV974 RV975 RV976	1-241-765-11 1-241-765-11 1-241-765-11 1-241-765-11	RES, ADJ, CARBON RES, ADJ, CARBON RES, ADJ, CARBON RES, ADJ, CARBON	1 22K 1 22K 1 22K 1 22K	
RV911 1-241-761-11 RV912 1-241-765-11 RV913 1-241-769-11	RES, ADJ, CARBOI RES, ADJ, CARBOI RES, ADJ, CARBOI	N 22K		RV977 RV978	1-241-765-11		1 22K	

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RV980 1-238-019-11 RES. ADJ. CARBON 47K C1534 1-101-003-00 CERAMIC 0.0047MF		
RV981 1-241-765-11 RES, ADJ, CARBON 22K C1551 1-124-122-11 ELECT 100MF 2 RV982 1-241-765-11 RES, ADJ, CARBON 22K C1552 1-124-122-11 FLECT 100MF 2	20% 5 20% 5 5% 5	0V 0V 0V 0V
*1-650-883-11 DS BOARD	5% 5 5% 5	0V 0V 0V 0V
C1841 1-126-233-11 ELECT 22MF 20% 25V C1560 1-102-824-00 CERAMIC 470PF	5% 5	ίον
C18A2 1-126-233-11 FLECT 22MF 20V 25V ! C1561 1-130-483-00 MYLAR 0.01MF 5	5% 5	0V 0V 0V
D1841 8-719-911-19 DIODE 1SS119 CD1842 8-719-911-19 DIODE 1SS119		
D1843 8-719-911-19 DIODE ISS119 D1844 8-719-911-19 DIODE ISS119 D1844 8-719-911-19 DIODE ISS119 D1503 8-719-911-19 DIODE ISS119 D1504 8-719-911-19 DIODE ISS119 D1504 8-719-911-19 DIODE ISS119		
<pre></pre>		
D1507 8-719-110-88 D10DE RD39ESB2		
IC1801 8-759-183-37 IC CA0007AD		
<pre><resistor></resistor></pre>		
R1841 1-215-441-00 METAL 6.8K 1% 1/4W R1842 1-215-455-00 METAL 27K 1% 1/4W		
R1844 1-215-445-00 METAL 10K 1% 1/4W   <coil> R1850 1-215-429-00 METAL 2.2K 1% 1/4W</coil>		
R1851 1-215-421-00 METAL 1K 1% 1/4W L1502 1-408-418-00 INDUCTOR 56UH		
*A-1342-214-A V BOARD, COMPLETE		
**************************************		
CAPACITOR> Q1506 8-729-119-78 TRANSISTOR 2SC2785-HFE C1501 1-102-129-00 CERAMIC 0.01MF 10% 50V Q1507 8-729-119-78 TRANSISTOR 2SC2785-HFE		
C1502 1-126-101-11 ELECT 100MF 20% 16V Q1508 8-729-142-86 TRANSISTOR 25C3733 C1504 1-106-383-00 MYLAR 0.047MF 200V Q1551 8-729-231-60 TRANSISTOR 25D1406-YGR C1505 1-124-907-11 ELECT 10MF 20% 50V Q1552 8-729-141-83 TRANSISTOR 25B1094-LK C1506 1-106-359-00 MYLAR 0.0047MF 10% 200V		
C1507 1-106-367-00 MYLAR 0.01MF 10% 100V Q1554 8-729-141-83 TRANSISTOR 2SB1094-LK		
C1508 1-162-318-11 CERAMIC 0.001MF 10% 500V Q1555 8-729-231-60 TRANSISTOR 2SD1406-YGR C1509 1-106-367-00 MYLAR 0.01MF 10% 100V Q1556 8-729-141-83 TRANSISTOR 2SB1094-LK C1510 1-126-355-11 ELECT 33MF 20% 160V		
C1511 1-124-668-11 ELECT 2.2MF 20% 200V <resistor></resistor>		
C1512 1-106-391-12 MYLAR 0.1MF 10% 200V   C1513 1-162-318-11 CERAMIC 0.001MF 10% 500V   R1501 1-249-451-11 CARBON 2.2 5% C1514 1-102-951-00 CERAMIC 15PF 5% 50V   R1502 1-249-414-11 CARBON 560 5% C1515 1-102-959-00 CERAMIC 22PF 5% 50V   R1503 1-247-734-11 CARBON 39 5% C1516 1-102-963-00 CERAMIC 33PF 5% 50V   R1504 1-249-384-11 CARBON 1.8 5% R1505 1-247-807-31 CARBON 100 5%	1/4W 1/2W	F F F
C1517 1-124-667-11 ELECT 10MF 20% 50V	1/4W	
C1518       1-102-074-00       CERAMIC       0.001MF       10%       50V       R1506       1-249-419-11       CARBON       1.5K       5%         C1519       1-106-359-00       MYLAR       0.0047MF       10%       200V       R1507       1-249-412-11       CARBON       390       5%         C1520       1-126-803-11       ELECT       47MF       20%       16V       R1508       1-249-436-11       CARBON       39K       5%         C1521       1-124-907-11       ELECT       10MF       20%       50V       R1509       1-249-421-11       CARBON       2.2K       5%         R1510       1-249-436-11       CARBON       39K       5%	1/4W 1/4W 1/4W 1/4W 1/4W	

The components identified by shading and mark  $\Lambda$  are critical for safety.

Replace only with part number specified.

Les composants identifiés par une trame et par une marque À sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.

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REF.NO. PART NO.	DESCRIPTION		REMARK	REF.NO. PART NO. DESCRIPTION	REMARK
R1513 1-249-432-11 R1514 1-247-807-31 R1515 1-249-435-11	CARBON 1 CARBON 1 CARBON 3	1.2K 5% 100K 5% 18K 5% 100 5% 33K 5%	1/4W 1/4W 1/4W 1/4W 1/4W	*1-643-591-11 H1 BOARD  ***********************************	
R1519 & 1-215-916-91 R1520 1-249-432-11 R1521 1-249-414-11 R1522 1-249-384-11	METAL OXIDE CARBON CARBON CARBON	1K 5% 680 5% 18K 5% 560 5% 1.8 5%	1/4W F 3M F 1/4W 1/4W F 1/4W F	*4-374-987-01 GUIDE, LIGHT (KP-46XBR35/53XBR35( 4-381-686-01 BRACKET (B), LIGHT GUIDE *4-389-517-01 GUIDE (R), LIGHT (KP-61XBR38) <capacitor></capacitor>	6/0//
R1523 1-249-400-11 R1524 1-249-418-11 R1525 1-249-421-11 R1526 1-249-426-11 R1527 1-249-414-11	CARBON CARBON CARBON	39 5% 1.2K 5% 2.2K 5% 5.6K 5% 560 5%	1/4W F 1/4W 1/4W 1/4W 1/4W	C1602 1-124-907-11 ELECT 10MF 20% 5 C1603 1-124-907-11 ELECT 10MF 20% 5	60 V 60 V 60 V
R1529 1-249-414-11	CARBON	10K 5% 560 5%	1/4W 1/4W	<diode></diode>	
R1530A 1-216-451-91 R1531 1-249-429-11 R1532 1-249-421-11	CARBON	120 5% 10K 5% 2.2K 5%	2W F 1/4W 1/4W	D1601 8-719-812-41 DIODE TLR124 D1602 8-719-812-41 DIODE TLR124	
R1533 1-247-903-00 R1534 1-249-423-11 R1535 1-249-392-11 R1540 1-215-445-00 R1541 1-215-445-00	CARBON CARBON METAL	1M 5% 3.3K 5% 8.2 5% 10K 1% 10K 1%	1/4W 1/4W 1/4W F 1/4W 1/4W	<pre><connector> H11 *1-564-526-11 PLUG, CONNECTOR 11P H15 *1-564-517-11 PLUG, CONNECTOR 2P</connector></pre>	
R1542 1-215-445-00 R1551 1-215-445-00 R1552 1-215-423-00 R1553 1-249-417-11 R1554 1-215-445-00	METAL METAL CARBON	10K 1% 10K 1% 1.2K 1% 1K 5% 10K 1%	1/4W 1/4W 1/4W 1/4W 1/4W	<ic> IC1601 8-741-148-33 IC SBX1483-59</ic>	
R1555 1-215-375-00 R1556 1-215-375-00 R1557 1-215-375-00 R1558 1-215-445-00 R1559 1-215-445-00	METAL METAL METAL	12 1% 12 1% 12 1% 10K 1% 10K 1%	1/4W 1/4W 1/4W 1/4W 1/4W	R1601 1-249-430-11 CARBON 12K 5% 1/4W R1602 1-249-425-11 CARBON 4.7K 5% 1/4W R1603 1-249-421-11 CARBON 2.2K 5% 1/4W R1604 1-249-419-11 CARBON 1.5K 5% 1/4W R1606 1-247-807-31 CARBON 100 5% 1/4W	
R1560 1-215-445-00 R1561 1-215-423-00 R1562 1-215-423-00 R1563 1-215-445-00 R1564 1-249-417-11	METAL METAL METAL	10K 1X 1.2K 1X 1.2K 1X 10K 1X 1K 5X	1/4W 1/4W 1/4W 1/4W 1/4W	R1607 1-247-807-31 CARBON 100 5% 1/4W R1608 1-249-411-11 CARBON 330 5% 1/4W	
R1565 1-215-445-00 R1566 1-215-375-00 R1567 1-215-375-00 R1568 1-215-375-00 R1569 1-215-445-00	METAL METAL METAL	10K 1X 12 1X 12 1X 12 1X 12 1X 10K 1X	1/4W 1/4W 1/4W 1/4W 1/4W		
R1570 1-215-445-00 R1571 1-249-417-11 R1572 1-215-445-00 R1573 1-215-375-00 R1574 1-215-375-00	CARBON METAL	10K 1% 1K 5% 10K 1% 12 1% 12 1%	1/4W 1/4W 1/4W 1/4W 1/4W	S1604 1-571-731-11 SWITCH, TACTIL S1605 1-571-731-11 SWITCH, TACTIL S1606 1-571-731-21 SWITCH, TACTIL	
R1575 1-215-375-00 R1576 1-215-445-00 R1577 1-215-445-00 R1578 1-249-417-11 R1579 1-249-417-11	METAL METAL CARBON	12 1% 10K 1% 10K 1% 1K 5% 1K 5%	1/4W 1/4W 1/4W 1/4W 1/4W	*1-643-592-11 H2 BOARD ********	
R1580 1-249-417-11 R1581 1-249-432-11 R1582 1-249-432-11	CARBON	1K 5% 18K 5% 18K 5%	1/4W 1/4W 1/4W		16V 50V
<กา	NNECTOR>		•	<30010>	
V2 *1-564-518-11	PLUG, CONNECTO CONNECTOR, BO/	OR 3P ARD TO BOAR	D 18P	D1651 8-719-908-03 DIODE GPO8D D1652 8-719-908-03 DIODE GPO8D D1653 8-719-108-12 DIODE RD9.1EW	

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Les composants identifiés par une trame et par une marque Å sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.

REF.NO. PART NO.	DESCRIPTION	REMARK	REF.NO. PART NO.	DESCRIPTION	REMARK
D1654 8-719-108-12 D1655 8-719-108-12 D1659 8-719-911-19 D1660 8-719-110-88 D1661 8-719-110-88	DIODE RD9.1EW DIODE RD9.1EW DIODE 1SS119 DIODE RD39ESB2 DIODE RD39ESB2		*1-644-632-11	******	
D1662 8-719-110-88 D1663 8-719-110-88			C7001 1-124-902-00	ACITOR> ELECT 0.47MF	20% 50V
<con< td=""><td>NECTOR&gt;</td><td></td><td>C7002 1-102-824-00 C7003 1-124-910-11 C7005 1-124-618-11</td><td>ELECT 47MF</td><td>5% 50V 20% 50V 20% 35V</td></con<>	NECTOR>		C7002 1-102-824-00 C7003 1-124-910-11 C7005 1-124-618-11	ELECT 47MF	5% 50V 20% 50V 20% 35V
H22 *1-564-519-11	PLUG, CONNECTOR 4P		C7006 1-137-399-11	FILM 0.1MF	5% 100V
H25 *1-564-517-11 H26 *1-564-519-11 H28 *1-564-518-11 H211 1-564-517-11	PLUG, CONNECTOR 2P PLUG, CONNECTOR 4P PLUG, CONNECTOR 3P PLUG, CONNECTOR 2P		C7007	ELECT 47MF FILM 0.1MF	20% 50V . 20% 50V . 5% 100V . 20% 35V . 20% 50V
H216 *1-564-525-11 H225 *1-564-518-11 H2-20 *1-564-517-11 H2-21 *1-564-517-11	PLUG, CONNECTOR 10P PLUG, CONNECTOR 3P PLUG, CONNECTOR 2P PLUG, CONNECTOR 2P (KP-46XRR	35/53XBR35(U/C))	C7013 1-124-902-00 C7014 1-102-824-00 C7015 1-124-917-11 C7016 1-124-572-11	ELECT 0.47MF CERAMIC 470PF ELECT 33MF	20% 50V 5% 50V 20% 50V 20% 63V
1-564-517-11	PLUG, CONNECTOR 2P (KP-	61XBR38)	C7017 1-124-921-11	ELECT 470MF	20% 63V
<ja(< td=""><td></td><td></td><td>C7020 1-124-903-11 C7021 1-124-903-11 C7041 1-124-484-11</td><td>ELECT 1MF ELECT 220MF</td><td>20% 50V 20% 50V 20% 35V</td></ja(<>			C7020 1-124-903-11 C7021 1-124-903-11 C7041 1-124-484-11	ELECT 1MF ELECT 220MF	20% 50V 20% 50V 20% 35V
J1651 -1-695-817-11	JACK BLOCK, PIN 3P		C7042 1-124-484-11	ELECT 220MF	20% 35V
(UL>	IPER>		<d16< td=""><td>ODE&gt;</td><td></td></d16<>	ODE>	
JW54 1-123-549-00		20% 50V (KP-61XBR38)	D7041 8-719-946-29 D7042 8-719-946-29		
JW55 1-123-549-00	ELECT 6.8MF	20% 50V (KP-61XBR38)	<10:		
			107001 8-749-920-14		
	ANSISTOR>			ANG LOROD.	
91652 8-729-119-78	TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE		07001 8-729-141-26 07002 8-729-141-26	ANSISTOR> TRANSISTOR 2SC3622A-LK TRANSISTOR 2SC3622A-LK TRANSISTOR 2SC3622A-LK TRANSISTOR 2SC3622A-LK	
<re:< td=""><td>SISTOR&gt;</td><td></td><td></td><td></td><td>,</td></re:<>	SISTOR>				,
R1651 1-249-419-11 R1652 1-249-421-11 R1653 1-249-425-11 R1654 1-249-430-11 R1655 1-249-417-11	CARBON 2.2K 5% CARBON 4.7K 5% CARBON 12K 5%	1/4W 1/4W 1/4W 1/4W 1/4W	R7001	CARBON 22K 5% CARBON 100K 5%	1/4W 1/4W 1/4W
R1656 1-249-417-11 R1657 1-249-436-11 R1658 1-249-437-11	CARBON 39K 5%	1/4W 1/4W 1/4W	R7006	CARBON 330 5% METAL OXIDE 220 5%	1/4W 1/4W
R1659 1-249-437-11	CARBON 47K 5%	1/4₩	R7009 1-249-389-11 R7010 1-249-389-11 R7011 & 1-215-888-71	CARBON 4.7 5%	1/4W F 1/4W F 2W F
<re< td=""><td>LAY&gt;</td><td></td><td>R7012 1-249-430-11</td><td></td><td>1/4W</td></re<>	LAY>		R7012 1-249-430-11		1/4W
RY1651 1-515-586-11 RY1652 1-515-586-11	RELAY (DS-2) RELAY (DS-2)		R7014 1-249-411-11 R7016 1-249-441-11 R7017 1-249-441-11 R7018 1-247-889-00	CARBON 100K 5% CARBON 100K 5%	1/4W 1/4W 1/4W 1/4W
	ITCH>		R7019 1-247-807-31	CARBON 100 5%	1/4W F
\$1651 1-571-731-11 \$1652 1-571-731-11 \$1653 1-571-731-11 \$1654 1-571-731-11 \$1655 1-571-731-11	SWITCH, TACTIL SWITCH, TACTIL SWITCH, TACTIL		R7023 1-215-445-00 R7024 1-215-445-00 R7030 1-215-439-00 R7031 1-215-439-00 R7041 1-247-895-00	METAL	1/4W 1/4W 1/4W 1/4W 1/4W
	********	***********	* R7042 1-247-895-00	CARBON 470K 5%	1/4W

The components identified by shading and mark  $\bigwedge$  are critical for safety.
Replace only with part number

specified.

REF.NO. PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
R7043 1-247-893-11	CARBON	390K 5%	1/4W			<res< td=""><td>ISTOR&gt;</td><td></td><td></td><td></td></res<>	ISTOR>			
R7044 1-249-437-11 R7100 △ 1-217-286-11 R7101 △ 1-217-288-11 R7102 △ 1-217-288-11	CARBON WIREWOUND WIREWOUND	47K 5% 1 10% 1.5 10%	1/4W 5W		R1903 R1904	1-249-414-11 1-249-414-11	CARBON	560 5% 560 5%	1/4W 1/4W	
.001	unamon.					<con< td=""><td>NECTOR&gt;</td><td></td><td></td><td></td></con<>	NECTOR>			
YA2 *1-564-507-11 YA7 *1-564-505-11 YA8 *1-564-506-11	PLUG, CONNECTO PLUG, CONNECTO	OR 2P OR 3P			ZR18 ZR-1	*1-564-518-11 *1-691-292-11 *1-564-522-11	PIN, CONNECTO PLUG, CONNECT	OR (PC BOARD OR 7P		
YA28 *1-564-508-11	PLUG, CONNECTI	OR 5P			*****	***********			******	*******
**************************************		*********	*****	*******	4 5 1 1 1	*A-1390-346-A	ZG BOARD, CON			
1-533-189-11	HOLDER, FUSE	•			i 	<res< td=""><td>ISTOR&gt;</td><td></td><td></td><td></td></res<>	ISTOR>			
4-382-854-11	SCREW (M3X10) PACITOR>	, P, SW (+)			R1913 R1914	1-249-414-11 1-249-414-11	CARBON CARBON	560 5% 560 5%	1/4W 1/4W	
		2200ME	20%	624		<con< td=""><td>INECTOR&gt;</td><td></td><td></td><td></td></con<>	INECTOR>			
C7201 1-125-463-11 C7202 1-124-607-11 C7203 1-101-821-00 C7204 1-101-821-00	ELECT CERAMIC CERAMIC	2200MF 0.0022MF 0.0022MF	20% 20%	63V 50V 500V 500V	ZG-2	*1-691-292-11 1-564-523-11	PLUG, CONNECT	FOR 8P		******
C7205 1-101-821-00		0.0022MF		500V	*****	,				******
C7206 1-101-821-00 C7207 1-161-743-00	CERAMIC	0.0022MF 0.0047MF		500V 400V		*A-1390-347-A	% BUARD, CU	7/LBIE *****		
<010	DDE>					<res< td=""><td>SISTOR&gt;</td><td></td><td></td><td></td></res<>	SISTOR>			
D7201 8-719-110-30 D7202点8-719-312-09 D7203点8-719-312-09	DIODE RBA-402	Color Calaborate San Alexandr	anterior de la companya de la companya de la companya de la companya de la companya de la companya de la compa La companya de la companya del companya de la companya del companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya del companya del companya del companya del companya del companya del companya del companya del companya del companya del companya del companya del companya del companya del companya del companya del com			1-249-414-11 1-249-414-11		560 5% 560 5%	1/4W 1/4W	
<fus< td=""><td>\$B&gt;</td><td></td><td></td><td></td><td></td><td><c01< td=""><td>NECTOR&gt;</td><td></td><td></td><td></td></c01<></td></fus<>	\$B>					<c01< td=""><td>NECTOR&gt;</td><td></td><td></td><td></td></c01<>	NECTOR>			
F7201 △ 1-532-746-11 F7202 △ 1-532-746-11	FIISE GLASS T	UBE 4A/125V UBE 4A/125V	All accompany to the second	en de la companya de	ZB-3	*1-691-292-11 1-564-524-11	PLUG, CONNEC	TOR 9P		******
<res< td=""><td>SISTOR&gt;</td><td></td><td></td><td></td><td></td><td></td><td>N BOARD, COM</td><td></td><td></td><td></td></res<>	SISTOR>						N BOARD, COM			
R7201 1-249-406-11	CARBON	120 5%	1/4W	F		4 200 054 11	*********			
R7202				And the second s	a des des des des ces : ca de		SCREW (M3X10 SPACER, MICA			
	LAY>					<ca< td=""><td>PACITOR&gt;</td><td></td><td></td><td></td></ca<>	PACITOR>			
RY720141=515-684-12	RELAY	and the second second second second in		Carried in the Carried State of the Carried State o	C801 C802	1-125-489-00 1-123-024-21	ELECT (BLOCK) ELECT	560MF 33MF	20%	200V 160V
<00	NNECTOR>				C803 C804	1-136-729-11 1-106-383-00	FILM MYLAR	1.5MF 0.047MF	5%	400V 200V
YG1 *1-691-134-11	PIN, CONNECTO	OR (PC BOARD	) 2P		C805	1-102-030-00		330PF	10%	500 <b>V</b>
YG3 *1-564-507-11 YG5 1-508-766-00		FOR 4P OR (5MM PITC	H) 4P		C806 C807 C808	1-126-183-11	ELECT ELECT	0.1MF 10MF 1000MF	5% 20% 20%	50V 50V 16V
	PIN, CONNECTO	-	n) 3P		C809 C810	1-124-903-11 1-124-903-11		1MF 1MF	20% 20%	50V 50V
	PLUG, CONNECT				C811	1-124-902-00	ELECT	0.47MF	20% 5%	50V 50V
*****************			******	********	C813	1-102-973-00	CERAMIC	100PF 220PF	10%	500V 200V
*A-1390-340-A	ZR BOARD, COI				C814 C815	1-106-391-12 1-106-367-00		0.1MF 0.01MF	10% 10%	200V 200V
					C816	1-124-907-11	ELECT	10MF	20%	50 <b>V</b>

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Les composants identifiés par une trame et par une marque A sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.

REF.NO. PART NO.	DESCRIPTION	REMARK	REF.NO. PART NO. DESCRIPTION REMARK
C820 1-124-907-11	ELECT 330MF CERAMIC 470PF ELECT 10MF ELECT 10MF ELECT 10MF	20% 16V 5% 50V 20% 50V 20% 50V 20% 50V	<1C>   IC801 8-759-231-58
C824 1-124-034-51	ELECT 33MF ELECT 10MF ELECT 33MF ELECT 33MF ELECT 10MF	20% 16V 20% 50V 20% 16V 20% 16V 20% 50V	1C805
C827 1-124-907-11 C828 1-124-907-11 C829 1-124-034-51 C830 1-124-907-11 C831 1-106-220-00	ELECT 10MF ELECT 10MF ELECT 33MF ELECT 10MF MYLAR 0.1MF	20% 50V 20% 50V 20% 16V 20% 50V 10% 100V	L802 1-424-603-11 COIL, CHOKE 1.05MMH L803 1-459-313-00 COIL WITH CORE (HWC) L804 1-410-482-31 INDUCTOR 100UH L805 Δ1-424-603-11 COIL, CHOKE 1.05MMH
C832 1-124-907-11 C833 1-124-916-11 C834 1-130-487-00 C835 1-124-927-11 C836 1-130-475-00	ELECT 10MF ELECT 22MF MYLAR 0.022MF ELECT 4.7MF MYLAR 0.0022MF	20% 50V 20% 50V 5% 50V 20% 50V 5% 50V	<pre></pre>
C837 1-136-169-00 C838 1-130-475-00 C839 1-102-106-00 C840 A 1-136-807-11 C841 1-136-729-11	FILM 0.22MF MYLAR 0.0022MF CERAMIC 100PF FILM 0.018MF FILM 1.5MF	5% 50V 5% 50V 10% 50V 3% 1.66V 5% 400V	N-5 *1-564-508-11 PLUG, CONNECTOR 5P
C842 1-130-471-00 C850 1-136-169-00 C851 1-124-907-11 C852 1-124-907-11 C853 1-106-220-00	MYLAR 0.001MF FILM 0.22MF ELECT 10MF ELECT 10MF MYLAR 0.1MF	5% 50V 5% 50V 20% 50V 20% 50V 10% 100V	N-10 *1-564-511-11 PLUG, CONNECTOR 8P N-20 *1-560-126-00 PLUG, CONNECTOR (2.5MM) 6P N-21 *1-560-123-00 PLUG, CONNECTOR (2.5MM) 3P N-30 1-508-784-00 PIN, CONNECTOR (5MM PITCH) 1P N-851 *1-506-371-00 PIN, CONNECTOR 2P
C854 1-126-329-11 C855 1-124-514-11 C856 1-162-114-00 C858 1-124-119-00 C888 1-124-903-11	ELECT 470MF ELECT 100MF CERAMIC 0.0047MF ELECT 330MF ELECT 1MF	20% 50V 20% 50V 2KV 20% 16V 20% 50V	N-853 *1-506-371-00 PIN, CONNECTOR 2P <neon lamp="">  NL801 1-519-108-99 LAMP, NEON</neon>
<010	DDE>		<transistor></transistor>
D802 8-719-300-80 D803 8-719-109-85 D804 8-719-911-19	DIODE ERD28-08S DIODE RU-1C DIODE RD5.1ESB2 DIODE 1SS119 DIODE 1SS119		Q801
D806 8-719-109-85 D807 8-719-109-85 D808 8-719-911-19 D809 8-719-911-19 D810 8-719-911-19	DIODE RD5. IESB2 DIODE 1SS119 DIODE 1SS119		Q806 8-729-119-80 TRANSISTOR 2SC2688-LK Q807 8-729-119-78 TRANSISTOR 2SC2785-HFE Q808 8-729-119-78 TRANSISTOR 2SC2785-HFE Q809 8-729-119-76 TRANSISTOR 2SA1175-HFE Q811 A8-729-805-07 TRANSISTOR 2SD1887-CA
D811 8-719-109-85 D812 8-719-911-19 D813 8-719-911-19 D814 8-719-911-19 D815 8-719-110-36	DIODE 188119 DIODE 188119 DIODE 188119		Q820 8-729-119-76 TRANSISTOR 2SA1175-HFE Q851 8-729-119-78 TRANSISTOR 2SC2785-HFE Q852 8-729-119-78 TRANSISTOR 2SC2785-HFE Q853 8-729-823-81 TRANSISTOR 2SC4632-CB7
D817 8-719-945-80 D820 8-719-911-19 D850 8-719-109-71 D851 A 8-719-903-09 D852 8-719-911-19	DIODE 1SS119 DIODE RD3.9ESB1 DIODE V3ON DIODE 1SS119		<pre></pre>
D853 <u>A</u> 8-719-903-09 D891 8-719-110-49 D892 8-719-110-49	DIODE RD18ESB2		R804

The components identified by shading and mark A are critical for safety.

Replace only with part number specified.

Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

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REF.NO. PART NO.	DESCRIPTION		REMARK	REF.NO. PART NO.	DESCRIPTION	REMARK
R811 1-249-421-11 R812 1-249-420-11 R813 A1-215-921-91 R814 1-249-409-11 R815 1-249-415-11	CARBON CARBON METAL OXIDE CARBON CARBON	2.2K 5% 1/4W 1.8K 5% 1/4W 4.7K 5% 3W 220 5% 1/4W 680 5% 1/4W	F Constitution of the Constitution of the Cons	R875 1-249-421-11 R876 1-215-426-00 R877 1-249-435-11 R878 1-249-441-11 R879 A 1-216-489-91	METAL 1.6K 1 CARBON 33K 5 CARBON 100K 5	% 1/4W % 1/4W % 1/4W
R819 1-215-450-00 R820 1-215-451-00	METAL METAL	100K 1% 1/4W 120K 1% 1/4W 120K 1% 1/4W 16K 1% 1/4W 18K 1% 1/4W		R880	CARBON         10K         5           METAL         22K         1           CARBON         22K         5           CABBON         1K         5           METAL OXIDE         2.2K         5	% 1/4W % 1/4W
R821 1-249-423-11 R822 1-249-433-11 R823 1-249-429-11 R824 1-215-469-00 R825 1-215-453-00 R826 1-214-962-00	CARBON CARBON METAL METAL	3.3K 5% 1/4W 22K 5% 1/4W 10K 5% 1/4W 100K 1% 1/4W 22K 1% 1/4W 820K 1% 1/4W		R885 1-249-418-11 R886 1-249-414-11 R887 1-215-397-00 R888 1-249-410-11 R889 1-249-417-11 R890 1-249-417-11		% 1/4W % 1/4W % 1/4W % 1/4W % 1/4W % 1/4W
R827 1-214-764-00 R828 1-215-455-00 R829 1-215-455-00 R830 \(\Lambda\) 1-215-928-91 R831 \(\Lambda\) 1-215-928-91	METAL METAL METAL METAL OXIDE	30K 1% 1/4W 27K 1% 1/4W 27K 1% 1/4W 68K 5% 3W		R891 A 1-216-489-91 R892 1-249-417-11 R893 1-215-453-00 R894 1-249-401-11 R895 1-202-731-00	METAL OXIDE 27K 5 CARBON 1K 5 METAL 22K 1	
R832 1-249-417-11 R833 1-249-419-11 R834 1-249-419-11 R835 1-215-429-00	CARBON CARBON CARBON METAL	68K 5% 3W 1K 5% 1/4W 1.5K 5% 1/4W 1.5K 5% 1/4W 2.2K 1% 1/4W		R896 1-260-111-11 R903 1-247-735-11 R904 A1-215-928-91 R905 A1-215-911-91	CARBON 10K 5 SOLID 47 2 METAL OXIDE 68K 5	% 1/2W 1/2W
R836 1-215-435-00 R837 1-249-433-11 R838 1-249-435-11 R839 1-249-438-11 R840 1-249-434-11	METAL CARBON CARBON CARBON CARBON	3.9K 1% 1/4W 22K 5% 1/4W 33K 5% 1/4W 56K 5% 1/4W 27K 5% 1/4W			ARK GAP>	
R841 1-249-429-11 R842 1-249-435-11 R843 1-249-423-11 R844 1-249-433-11 R845 1-249-435-11	CARBON CARBON CARBON CARBON CARBON	10K 5% 1/4W 33K 5% 1/4W 3.3K 5% 1/4W 22K 5% 1/4W 33K 5% 1/4W		7801	NSFORMER> TRANSFORMER, HORIZONT HDT TRANSFORMER ASSY, FLY	
R846 1-249-429-11 R847 1-214-761-00 R848 1-215-429-00 R849 1-215-421-00 R850 1-215-429-00	CARBON METAL METAL METAL METAL	10K 5% 1/4k 22K 1% 1/4k 2.2K 1% 1/4k 1K 1% 1/4k 2.2K 1% 1/4k		***********	S BOARD, COMPLETE	The first of the second state of the first of the second s
R851 1-215-404-00 R852 △ R853 1-215-469-00 R854 1-249-430-11	METAL METAL CARBON	200 1% 1/4k 100K 1% 1/4k 12K 5% 1/4k 100K 1% 1/4k	of the second bullet purpose and		CASE (UPPER LID), SHI	ELD, P4
R855 1-215-469-00  R856 1-249-430-11  R857 1-249-433-11  R858 1-249-413-11  R859 1-249-435-11  R860 1-249-441-11	METAL  CARBON CARBON CARBON CARBON CARBON CARBON	100K 1% 1/4V 12K 5% 1/4V 22K 5% 1/4V 470 5% 1/4V 33K 5% 1/4V 100K 5% 1/4V		C3403 1-164-161-11 C3408 1-164-232-11 C3409 1-124-589-11 C3411 1-124-034-51 C3442 1-164-161-11	CERAMIC CHIP 0.0022MF CERAMIC CHIP 0.01MF ELECT 47MF ELECT 33MF CERAMIC CHIP 0.0022MF	10% 50V 20% 16V 20% 16V
R861 1-249-421-11 R862 1-249-434-11 R863 1-249-431-11 R864 1-249-428-11 R865 1-249-440-11	CARBON CARBON CARBON CARBON CARBON	2. 2K 5% 1/4V 27K 5% 1/4V 15K 5% 1/4V 8. 2K 5% 1/4V 82K 5% 1/4V		C3446 1-163-129-00 C3447 1-163-117-00 C3448 1-164-232-11 C3449 1-164-182-11 C3451 1-164-004-11	CERAMIC CHIP 330PF CERAMIC CHIP 100PF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.0033MF CERAMIC CHIP 0.1MF	10% 25V
R866 1-249-436-11 R867 1-249-437-11 R868 1-249-428-11 R869 1-249-429-11 R870 1-249-417-11	CARBON CARBON CARBON CARBON CARBON	39K 5% 1/4V 47K 5% 1/4V 8.2K 5% 1/4V 10K 5% 1/4V 1K 5% 1/4V		C3452 1-163-989-11 C3453 1-124-589-11 C3454 1-126-162-11 C3455 1-126-163-11 C3456 1-163-129-00	CERAMIC CHIP 0.033MF ELECT 47MF ELECT 3.3MF ELECT 4.7MF CERAMIC CHIP 330PF	10% 25V 20% 16V 20% 50V 20% 16V 5% 50V
R871 1-249-440-11 R872 1-249-423-11 R873 1-249-441-11 R874 1-249-435-11	CARBON CARBON CARBON	82K 5% 1/4k 3.3K 5% 1/4k 100K 5% 1/4k 33K 5% 1/4k	) 	C3457 1-163-117-00 C3459 1-124-589-11 C3460 1-163-099-00 C3461 1-163-099-00 C3507 1-164-232-11	ELECT 47MF CERAMIC CHIP 18PF CERAMIC CHIP 18PF	5% 50V 20% 16V 5% 50V 5% 50V 10% 50V

The components identified by in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.
 Should replacement be required, replace only with the value originally used.

<sup>\* :</sup> Selected to yield optimum performance.

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					DDW4D#	ince No	DARW NO	NECCHIDEION			REMARK
	REF.NO.	PART NO.	DESCRIPTION		REMARK	KEF.NU.	PART NO.	DESCRIPTION			nemara 
	C3509	1-164-005-11 1-163-139-00	CERAMIC CHIP 0.47 CERAMIC CHIP 820F CERAMIC CHIP 150F ELECT 10MF	MF F 5	25V 5% 50V 5% 50V	R3513 R3514	1-216-059-00 1-216-059-00	METAL GLAZE METAL GLAZE	2.7K 5% 2.7K 5%	1/10W 1/10W	
	C3515 C3540	1-163-121-00 1-126-157-11	CERAMIC CHIP 150P ELECT 10MF	PF 5	5% 50V 20% 16V	R3519 R3520	1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE	1K 5% 1K 5%	1/10W 1/10W	
		<0101	DE>			R3521 R3525	1-216-049-00 1-216-295-00	METAL GLAZE METAL GLAZE	1K 5% 0 5%	1/10W 1/10W	
	D3444	8-719-404-46	DIODE MA110			R3526	1-216-073-00 1-216-295-00	METAL GLAZE METAL GLAZE	10K 5% 0 5%	1/10W 1/10W	
		<1C>				R3529 R3530	1-216-295-00 1-216-073-00	METAL GLAZE METAL GLAZE	0 5% 10K 5%	1/10W 1/10W 1/10W	
		8-759-403-44 8-759-070-42	IC MN1280-S IC M37201M6-A18FI	P		R3531	1-216-073-00 1-216-073-00	METAL GLAZE	10K 5%	1/10W	
	103441 103442	8-759-708-05 8-759-084-12	IC NJM78L05A IC LA7945	•		R3535 R3537	1-216-033-00 1-216-295-00	METAL GLAZE	220 5% 0 5% 10K 5%	1/10W 1/10W 1/10W	
			IC LC7458B-03			K354U	1-216-073-00	METAL GLAZE	101 26	1/10W	
IC3444 8-759-403-44 IC MN1280-S						7 40		INECTOR>	CTOD OD		
	13401	<011 1-408-421-00		กดแห		5-42 5-42 5-43	*1-565-514-11 *1-568-378-21 *1-564-508-11 *1-564-511-71 *1-564-506-11	PIN, CONNECTO PLUG. CONNECT	SCIOR 2P DR 3P FOR 5P		
	L3461	1-408-409-00	INDUCTOR 10 INDUCTOR 10 INDUCTOR 10	OUH OOUH		S-45 S-46	*1-564-511-71 *1-564-506-11	PLUG, CONNECT PLUG, CONNECT	TOR 8P TOR 3P		
		<tra< td=""><td>NSISTOR&gt;</td><td></td><td></td><td>S-47</td><td>*1-564-506-11</td><td>PLUG, CONNEC</td><td>TOR 3P</td><td></td><td></td></tra<>	NSISTOR>			S-47	*1-564-506-11	PLUG, CONNEC	TOR 3P		
	03441	8-729-120-28	TRANSISTOR 2SC16 TRANSISTOR FMW1	23-L5L6			<cry< td=""><td>(STAL&gt;</td><td></td><td></td><td></td></cry<>	(STAL>			
	<b>4</b> 5444					X3401 X3441	1-577-358-21 1-579-126-11	VIBRATOR, CE VIBRATOR, CE	RAMIC RAMIC		
	b2401		ISTOR>	E¥	1/10W	*****	********	**********	********	******	******
	R3401 R3402 R3403	1-216-049-00 1-216-073-00	METAL GLAZE 1K METAL GLAZE 10	5% 5% K 5%	1/10W 1/10W		*A-1394-429-A	U BOARD, COM			
	R3404 R3405	1-216-033-00 1-216-057-00	METAL GLAZE 22	0 5% 2K 5%	1/10W 1/10W		<ca< td=""><td>PACITOR&gt;</td><td></td><td></td><td></td></ca<>	PACITOR>			
	R3406 R3407	1-216-033-00	METAL GLAZE 22	7K 5% 20 5% 7K 5%	1/10W 1/10W	C1004	1-102-125-00	CERAMIC	0.0047MF 1MF	10% 20%	50V 50V
	R3408 R3409 R3441	1-216-065-00 1-216-033-00 1-216-025-00	METAL GLAZE 4. METAL GLAZE 22 METAL GLAZE 10	20 5%	1/10W 1/10W 1/10W	£1006	1-126-301-11 1-164-096-11 1-124-598-11	CERAMIC	0.01MF 22MF	20%	50V 25V
	R3442	1-216-041-00	METAL GLAZE 47	0 5%	1/10W	C1008	1-124-598-11	ELECT	22MF	20% 20%	25V 50V
	R3443 R3444 R3445	1-216-025-00 1-216-077-00 1-216-689-11	METAL GLAZE 15 METAL GLAZE 15 METAL GLAZE 39	5K 5%	1/10W 1/10W 1/10W		1-124-465-00 1-124-465-00 1-124-465-00	ELECT	0.47MF 0.47MF 0.47MF	20% 20% 20%	50V 50V
	R3446	1-216-085-00	METAL GLAZE 33		1/10W	C1013 C1014	1-102-125-00	CERAMIC	0.0047MF 4.7MF	10% 20%	50V 50V
	R3449 R3450 R3451		METAL GLAZE 10 METAL GLAZE 2. METAL GLAZE 68	0K 5% . 2K 5% 3K 5%	1/10W 1/10W 1/10W	C1016		ELECT ELECT	4.7MF 1MF	20% 20%	50V 50V
	R3452 R3453	1-216-079-00	METAL GLAZE 18 METAL CHIP 15	3K 5%	1/10W % 1/10W	C1020	1-124-242-00 1-124-465-00	ELECT ELECT	33MF 0.47MF 33MF	20% 20% 20%	25V 50V 25V
	R3454 R3455		METAL GLAZE 11 METAL GLAZE 2	K 5% . 2K 5%	1/10W 1/10W	C1022			12PF	5% 5%	50V
	R3456 R3463	1-216-077-00 1-216-073-00	METAL GLAZE 19 METAL GLAZE 10	5K 5% OK 5%	1/10W 1/10W	C1027 C1028 C1029	1-124-242-00	ELECT	12PF 33MF 22MF	5% 20% 20%	50V 25V 16V
	R3464 R3465				1/10W 1/10W	C1030	1-124-478-11	ELECT	100MF	20%	25 <b>V</b>
	R3472 R3473	1-216-091-00 1-216-025-00	METAL GLAZE 50 METAL GLAZE 10	6K 5% 00 5%	1/10W 1/10W 1/10W	C1031 C1034 C1036	1-124-282-00	ELECT	33PF 22MF 22MF	5% 20% 20%	50V 16V 16V
	R3474 R3504	1-216-295-00 1-216-057-00	METAL GLAZE 2		1/10W	C103	7 1-124-282-00	ELECT	22MF 100MF	20% 20% 20%	16V 25V
	R3509 R3511 R3512	1-216-025-00	METAL GLAZE 1	K 5% 00 5% .7K 5%	1/10W 1/10W 1/10W	C104	7 1-124-465-06 8 1-126-301-11		0.47MF 1MF	20% 20%	50V 50V
	n.)312	. 1 210 039 00	norma dense a	. in Ja	1, 100	, -201			-		



REF.NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION		REMARK
C1051 C1055 C1056	1-124-598-11 1-124-465-00 1-124-589-11 1-124-499-11 1-124-768-11	ELECT ELECT	22MF 0.47MF 47MF 1MF 4.7MF	20% 20% 20% 20% 20%	25V 50V 16V 50V 50V	R1017 R1018 R1019	1-249-441-11 1-247-807-31 1-249-427-11 1-249-427-11 1-247-807-31	CARBON CARBON CARBON CARBON CARBON	100K 5% 100 5% 6.8K 5% 6.8K 5% 100 5%	1/4W 1/4W 1/4W 1/4W
C1060 C1061 C1062	1-124-499-11 1-124-499-11 1-124-499-11 1-102-129-00 1-124-768-11	ELECT ELECT ELECT CERAMIC ELECT	1MF 1MF 1MF 0.01MF 4.7MF	20% 20% 20% 10% 20%	50V 50V 50V 50V 50V	R1028 R1029 R1030	1-249-425-11 1-249-434-11 1-249-435-11 1-249-417-11 1-249-417-11	CARBON CARBON CARBON CARBON CARBON	4.7K 5% 27K 5% 33K 5% 1K 5%	1/4W 1/4W 1/4W 1/4W 1/4W
C1066	1-126-101-11		100MF	20%	16V	R1033 R1034 R1036	1-249-393-11 1-249-417-11	CARBON CARBON CARBON	10 5% 1K 5% 150K 5%	1/4W F 1/4W 1/4W
	<010	DE>				R1037	1-247-883-00 1-247-883-00 1-247-883-00	CARBON CARBON	150K 5% 150K 5%	1/4W 1/4W 1/4W
D1009 D1010	8-719-110-36 8-719-110-36 8-719-110-36 8-719-110-36 8-719-110-36	DIODE RD13ES DIODE RD13ES DIODE RD13ES DIODE RD13ES DIODE RD13ES	B2 B2 B2		·	R1043 R1046 R1048 R1050 R1051	1-249-417-11 1-249-413-11 1-247-807-31 1-247-807-31 1-249-417-11	CARBON CARBON CARBON CARBON CARBON	1K 5% 470 5% 100 5% 100 5% 1K 5%	1/4W 1/4W 1/4W 1/4W 1/4W
D1013 D1017 D1018 D1019 D1020	8-719-110-36 8-719-110-36 8-719-110-36 8-719-110-36 8-719-109-66	DIODE RD13ES DIODE RD13ES DIODE RD13ES DIODE RD13ES DIODE RD3.3E	B2 B2 B2 B2 SB2 SB2			R1052 R1054 R1055 R1056 R1057	1-249-413-11 1-247-807-31 1-249-413-11 1-247-807-31 1-249-441-11	CARBON CARBON CARBON CARBON CARBON CARBON	470 5% 100 5% 470 5% 100 5% 100K 5%	1/4W 1/4W 1/4W 1/4W 1/4W
D1021 D1022	8-719-109-66 8-719-109-66	DIODE RD3.3E	304			R1059 R1061	1-247-807-31 1-249-409-11	CARBON CARBON	100 5% 220 5%	1/4W 1/4W
	<10>					R1062 R1063 R1066	1-249-441-11	CARBON CARBON METAL	100K 5% 220 5% 4.7K 1%	1/4W 1/4W 1/4W
IC1002 IC1011	8-752-067-28 8-759-145-57	IC CXA1545AS IC UPC4557C	;			R1067 R1068	1-215-437-00	METAL	4.7K 1%	1/4W 1/4W
	<c01< td=""><td>L&gt;</td><td></td><td></td><td></td><td>R1069 R1070</td><td>1-215-437-00 1-215-437-00 1-249-411-11</td><td>METAL Carbon</td><td>4.7K 1% 330 5%</td><td>1/4W 1/4W</td></c01<>	L>				R1069 R1070	1-215-437-00 1-215-437-00 1-249-411-11	METAL Carbon	4.7K 1% 330 5%	1/4W 1/4W
	1-408-422-00 1-408-422-00	INDUCTOR INDUCTOR	120UH 120UH			R1073	1-249-431-11 1-249-431-11	CARBON CARBON	15K 5%	1/4W 1/4W
	<tra< td=""><td>NSISTOR&gt;</td><td></td><td></td><td></td><td>R1077 R1078 R1079</td><td>1-249-418-11 1-249-418-11 1-247-807-31</td><td>CARBON CARBON</td><td>1.2K 5% 1.2K 5% 100 5%</td><td>1/4W 1/4W 1/4W</td></tra<>	NSISTOR>				R1077 R1078 R1079	1-249-418-11 1-249-418-11 1-247-807-31	CARBON CARBON	1.2K 5% 1.2K 5% 100 5%	1/4W 1/4W 1/4W
Q1010 Q1016 Q1017	8-729-119-78 8-729-119-78 8-729-119-76 8-729-119-76 8-729-141-26	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2	2SC2785-HFE 2SA1175-HFE 2SA1175-HFE			R1094 R1096		METAL CARBON CARBON CARBON	1.2K 1% 1K 1% 100 5% 100 5% 100 5% 470 5%	1/4W 1/4W 1/4W 1/4W
Q1019 Q1020 Q1021 Q1022 Q1023	8-729-119-76 8-729-119-76 8-729-141-26	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2	2SA1175-HFE 2SA1175-HFE 2SC3622A-LK			R1099 R1110 R1116 R1118 R1120 R1121	1-249-413-11 1-247-807-31 1-249-441-11 1-249-413-11 1-249-413-11 1-249-441-11	CARBON CARBON CARBON CARBON	470 5% 100 5% 100K 5% 470 5% 470 5% 100K 5%	1/4W 1/4W 1/4W 1/4W 1/4W
01032 01033	8-729-119-78 8-729-119-78 8-729-119-76 8-729-119-76	TRANSISTOR : TRANSISTOR : TRANSISTOR : TRANSISTOR : TRANSISTOR :	2SC2785-HFE 2SC2785-HFE 2SA1175-HFE 2SA1175-HFE			R1122 R1133 R1134 R1137 R1138	1-249-413-11 1-247-807-31	CARBON CARBON CARBON CARBON	470 5% 100 5% 100 5% 330 5% 680 5%	1/4W 1/4W 1/4W 1/4W 1/4W
Q1034	8-729-119-76	TRANSISTOR	25A1175-HFE			R1139 R1140	1-249-413-11 1-249-413-11	CARBON CARBON	470 5% 470 5%	1/4W 1/4W
R1011		SISTOR>	33K 5%	1/4W		R1141 R1142 R1147	1-249-413-11 1-249-415-11	CARBON CARBON	470 5% 680 5% 100 5%	1/4W 1/4W 1/4W
R1012 R1013 R1014	1-249-434-11 1-249-417-11	CARBON CARBON CARBON	27K 5% 1K 5% 100K 5% 4.7K 5%	1/4W 1/4W 1/4W 1/4W	 	R1148 R1149 R1150 R1151	1-247-807-31 1-249-417-11 1-247-807-31	CARBON CARBON CARBON	100 5% 1K 5% 100 5% 100 5%	1/4W 1/4W 1/4W 1/4W



REF.NO. PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
R1152 1-249-417-11	CARBON 1K 5	5% 1/4W				ISTOR>				
<con U-12 1-573-300-21 U-13 1-573-300-21</con 	NECTOR>  CONNECTOR, BOARD TO E CONNECTOR, BOARD TO E PLUG, CONNECTOR 10P CONNECTOR (RECEPTACL CONNECTOR, HINGE (REC PLUG, CONNECTOR 7P PLUG, CONNECTOR 3P	BOARD 18P		R1153 R1154 R1158 R1164 R1165	1-249-403-11 1-249-429-11 1-247-804-11 1-247-895-00	CARBON CARBON CARBON CARBON CARBON	68 10K 75 470K 470K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
U-16 *1-564-513-11 U-22 *1-565-930-11 U-23 *1-566-367-11	PLUG, CONNECTOR 10P CONNECTOR (RECEPTACLI CONNECTOR, HINGE (REC	E) 30P CEPTACLE)		R1166 R1167 R1168	1-247-895-00 1-247-895-00 1-247-895-00	CARBON CARBON CARBON	470K 470K 470K	5% 5%	1/4W 1/4W 1/4W	
U-32 *1-564-510-11 U-47 *1-564-506-11	PLUG, CONNECTOR 7P PLUG, CONNECTOR 3P			R1169 R1170	1-249-403-11 1-249-403-11	CARBON CARBON	68 68	5% 5% 5%	1/4W 1/4W	
************	UT BOARD, COMPLETE			R1171 R1172 R1173 R1174			470K 470K 75 470K 470K	5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
<cap< td=""><td>ACITOR&gt;</td><td></td><td></td><td>R1176 R1177</td><td>1-247-804-11 1-247-804-11</td><td>CARBON CARBON</td><td>75 75</td><td>5% 5%</td><td>1/4W 1/4W</td><td>•</td></cap<>	ACITOR>			R1176 R1177	1-247-804-11 1-247-804-11	CARBON CARBON	75 75	5% 5%	1/4W 1/4W	•
C1152 1-102-074-00 C1153 1-164-096-11 C1154 1-164-096-11 C1155 1-126-103-11	CERAMIC 0.01MF CERAMIC 0.01MF	10% 20%	50V 50V 50V 16V	R1178 R1179 R1180	1-247-895-00 1-247-895-00 1-247-804-11	CARBON CARBON CARBON	470K 470K 75	5% 5% 5% 5%	1/4W 1/4W 1/4W	
C1155 1-126-103-11 C1158 1-124-598-11 C1159 1-124-598-11 C1160 1-124-598-11	ELECT 22MF ELECT 22MF	20% 20% 20%	25V 25V 25V	R1181 R1182 R1183 R1184	1-247-804-11 1-247-804-11 1-247-895-00 1-247-895-00	CARBON CARBON CARBON	75 75 470K 470K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W	
C1161 1-124-598-11 C1164 1-126-103-11 C1165 1-126-301-11	ELECT 22MF ELECT 470MF ELECT 1MF	20% 20% 20%	25V 16V 50V	R1185 R1186 R1187	1-247-895-00 1-247-895-00 1-247-804-11	CARBON CARBON CARBON	470K 470K 75		1/4W 1/4W 1/4W	
C1166 1-126-301-11 C1167 1-126-301-11 C1168 1-126-301-11 C1199 1-102-129-00	ELECT 1MF ELECT 1MF CERAMIC 0.01MF	20% 20% 20% 10%	50V 50V 50V 50V	R1191 R1192		CARBON CARBON CARBON	75 4.7K 4.7K	5% 5% 5%	1/4W 1/4W 1/4W	
C1200 1-102-129-00	CERAMIC 0.01MF	10%	50 <b>V</b>	R1193 R1194 R1195 R1196	1-249-425-11 1-249-425-11 1-249-429-11 1-249-429-11	CARBON CARBON	4.7K 4.7K 10K 10K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W	
D1151 8-719-110-36 D1152 8-719-110-36	DIODE RD13ESB2 DIODE RD13ESB2				<sw< td=""><td>ITCH&gt;</td><td></td><td></td><td></td><td></td></sw<>	ITCH>				
D1158 8-719-110-36 D1159 8-719-110-36 D1160 8-719-110-36	DIODE RD13ESB2 DIODE RD13ESB2 DIODE RD13ESB2			S1150	1-572-198-11		OARD			
D1161 8-719-110-36 D1162 8-719-110-36	DIODE RD13ESB2 DIODE RD13ESB2					NNECTOR>				
D1163 8-719-110-36 D1164 8-719-110-36 D1165 8-719-110-36	DIODE RD13ESB2 DIODE RD13ESB2 DIODE RD13ESB2			UT22 UT23	*1-564-519-11 *1-565-928-11 *1-566-641-11	CONNECTOR (T CONNECTOR, I	TOR 4P 'UB) 30I IINGE ('	р ГАВ) 1	.8P	
D1166 8-719-110-36 D1167 8-719-110-36 D1168 8-719-110-36 D1169 8-719-110-36	DIODE RD13ESB2 DIODE RD13ESB2 DIODE RD13ESB2			UT38	*1-564-518-11 (1-564-517-11	PLUG, CONNEC	TOR 2P			
D1170 8-719-110-36 D1171 8-719-110-36				*****	**************************************	SCELLANEOUS	******	*****	******	*******
					**	*******	w Hite	n enia	· ier	
<pre><ja 1-537-188-11="" 1-573-970-11="" 1-695-304-11<="" j1001="" j1003="" j1004="" pre=""></ja></pre>	TERMINAL, PUSH (8P) BLOCK, (S) TERMINAL TERMINAL BLOCK. S				Δ1-241-744-11 1-417-178-11 Δ1-451-396-21 Δ1-452-443-13 Δ1-453-108-11	SELECTOR, AI DEFLECTION NECK ASSY,	NTENNA YOKE (Y PICTURE	(AS-2) 936PA) Tube		
J1005 1-695-054-11 J1006 1-573-970-11 J1007 1-573-969-11	JACK BLOCK, PIN BLOCK, (S) TERMINAL JACK BLOCK, PIN				1-504-141-11 1-504-312-11 1-504-313-11 1-544-580-21	SPEAKER (SQ Speaker (16	UAWKER) CM) (KP	(5CM) -61XBI	(KP-61) R38)	(BK38)
J1008 1-573-969-11	JACK DLUCK, PIN				*1-555-400-00	CABLE, PIN	אין (מיכ	2000		

The components identified by shading and mark A are critical for safety.

Replace only with part number specified.

REF.NO. PART NO.	DESCRIPTION	REMARK
*1-557-056-31 & 1-696-002-12	CABLE, P-P CORD, POWER (WITH NO	ISE FILTER) 7.0A/125V
<b>▲</b> 8-736-634-05 <b>▲</b> 8-736-635-05	PICTURE TUBE 07MK3() PICTURE TUBE 07MK3() (KP-4	G) B) 6XBR35/53XBR35(U/C))
<b>▲8-736-636-05</b>	PICTURE TUBE 07MK3( (KP-4	R) 6XBR35/53XBR35(U/C))
Δ8-736-640-05 Δ8-736-641-05 ■ R900 Δ ■ R901 Δ ■ R902 Δ	PICTURE TUBE 07MK2( PICTURE TUBE 07MK2( METAL METAL METAL	B) (KP-61XBR38) R) (KP-61XBR38) 1/4W 1/4W
T7201&1-423-311-21		
************	*************	***************
	RIES AND PACKING MATE	
3-758-548-21	MANUAL, INSTRUCTION (KP-46XBR35/5	(ENGLISH) 3XBR35(U/C)/61XBR38)
3-758-548-31	MANUAL, INSTRUCTION	(FRENCH) (KP-53XBR35(CND))
3-758-548-41	MANUAL, INSTRUCTION (KP-46XBR35/	(SPANISH) 53XBR35(US)/61XBR38)
*4-030-895-01 *4-037-320-01 *4-037-670-01 *4-040-904-01 *4-037-321-01	CUSHION (UPPER) (AS CUSHION (UPPER) (AS	SY) (KP-53XBR35(U/C)) SY) (KP-46XBR35) SY) (KP-61XBR38) SY) (KP-53XBR35(U/C))
*4-037-671-01 *4-040-905-01 *4-037-326-01 *4-037-672-01 *4-040-907-02	CUSHION (LOWER) (AS CUSHION (LOWER) (AS INDIVIDUAL CARTON ( INDIVIDUAL CARTON ( INDIVIDUAL CARTON (	SY) (KP-61XBR38) KP-53XBR35(U/C)) KP-46XBR35)
*4-037-327-01 *4-037-671-01 *4-040-906-01 *4-037-674-01 *4-037-328-01	TRAY (KP-53XBR35 (U/ TRAY (KP-46XBR35) TRAY (KP-61XBR38) PLATE, TOP (KP-46XB PLATE, TOP (KP-53XB	
*4-040-111-01 *4-037-675-01 *4-037-329-01 *4-040-903-01 *4-041-423-01	PLATE, BOTTOM (KP-4 PLATE, BOTTOM (KP-5 PLATE, BOTTOM (KP-6	1XBR38)
*4-042-463-01 *4-042-464-01 *4-041-425-01 *4-041-426-01 *4-041-428-01	SHEET, PROTECTION (BAG, PROTECTION (KF BAG, PROTECTION (KF	
*4-039-795-02 *4-042-310-01		2-53XBR35 (U/C)) 2-46XBR35)

## REMOTE COMMANDER

1-693-156-21	REMOTE COMMANDER (RM-Y114A)
9-902-623-01	COVER, BATTERY (FOR RM-Y114A)
9-902-624-01	COVER (FOR RM-Y114A)

- The components identified by in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
  - \* : Selected to yield optimum performance.